

# **Electric Trade in the United States 1996**

**December 1998**

**Energy Information Administration**  
Office of Coal, Nuclear, Electric and Alternate Fuels  
U.S. Department of Energy  
Washington, DC 20585

# Contacts

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# Executive Summary

In the past, wholesale trade in electricity played an important role for the U.S. electric utility industry in helping to reduce costs and for providing reliability support. Today, it has an even more important role in the new competitive electric power industry. For in 1996, the wholesale trade market totaled 2.3 trillion kilowatthours. This total, expressed in another way, means that 73 percent of total sales to ultimate consumers were part of a wholesale electricity trade transaction which linked together the contract path from source generation to end-use consumption (Table 3).

Participation in wholesale, or bulk power, transactions has increased through the regulatory actions of the Federal Energy Regulatory Commission's (FERC) when it started the process to authorize market competition for the wholesale trade sector of the electric power industry. Electric utilities, power marketers, and many industrial companies are buying and selling their power under the new rules for this market. There is now more power supply options (both for acquiring physical energy and financial protection). New competitive markets have also been proposed for electrical system support services. From this, the hope for the future is that competition will lead to improved reliability.

## ***The Electric Power Industry and Wholesale Trade***

This publication on electric trade data provides information on the electric power industry during 1996. The information furnished provide important information on the wholesale structure found within the U.S. electric power industry. The patterns of interutility trade in the report support analyses of wholesale power transactions and provide input for a broader understanding of bulk power market issues that defines the emerging national electric energy policies. The report includes information on the quantity of power purchased, sold, exchanged, and wheeled; the geographical locations of transactions and ownership classes involved; and the revenues and costs. The util-

ities covered in this publication include all U.S. electric utilities in the 50 States and the District of Columbia. Electric utilities fall into four basic ownership classifications: investor-owned (privately owned), publicly owned, cooperative, and power marketers. Publicly owned utilities may be Federally owned, State-owned, or municipally owned.

In 1996, there were 3,195 electric utilities in the United States and 65 power marketers (active reporters for a grand total of 3,260). Of these, 2,020 were publicly owned (including 10 Federal utilities), 932 were rural electric cooperatives, and 243 were investor-owned utilities (Table 1). Some of these electric utilities have service territories extending beyond a single county or parish. Others just serve a municipality or part of a county. Many of the Nation's electric utilities are exclusively distribution utilities, that is, they purchase wholesale power from other utilities and distribute, on their own distribution lines, the electricity to ultimate consumers. Power Marketers do not have service territories, but can provide their services anywhere. This operating capability will become a model for many in the future.

However, the counts and responsibilities of these utilities are changing as the restructuring activities that are reshaping the electric power industry alters the traditional practices and service territory boundaries. Electric utilities are merging with others or are being acquired. And, some of these electric utilities are being directed (State government initiatives) to sell off their generating assets and focus the regulated part of the company on transmission and/or distribution (for example, in California and Massachusetts). Part of the reason for this sell-off is that there is a high concentration of the nation's total utility generation assets owned by a small ownership class of utilities. The belief is that under market competition, this concentration of capability would represent too much market power influence over charged prices. Whether this become a trend that other States follow is a question that currently has no answer. But, there are fewer than 1,000<sup>1</sup> of the 3,200 utilities in the United States engaged in power generation. These utility generating asset holdings represents 91 percent of the total industry's net summer capability in 1996.<sup>2</sup>

<sup>1</sup> Energy Information Administration Form EIA-860, "Annual Electric Generator Report."

<sup>2</sup> Energy Information Administration, *Annual Energy Review 1996* DOE/EIA-0384(96)(Washington, DC) p. 228.

**Table ES1. Comparison of Electric Trade Data by North American Electric Reliability Council Region for Years 1990, 1992, 1994, and 1996**

| NERC Region   | Geographic Area  | Billion Kilowatthours |              |              |              | Percent Change 1990-1996 |
|---|--|-----------------------|--------------|--------------|--------------|--------------------------|
|   |  | 1996                  | 1994         | 1992         | 1990         |                          |
| <b>Purchases by Investor-Owned Utilities</b>        |  |                       |              |              |              |                          |
| ECAR.....   | Indiana; Ohio; West Virginia; and portions of Kentucky, Maryland, Michigan, Pennsylvania, and Virginia   | 121.9                 | 98.3         | 95.7         | 79.2         | 54.1                     |
| ERCOT.....  | Portions of Texas  | 33.9                  | 27.2         | 28.0         | 27.0         | 25.3                     |
| MAAC.....   | Delaware; District of Columbia; New Jersey; and portions of Maryland, Pennsylvania, and Virginia   | 109.7                 | 35.8         | 70.2         | 43.8         | 150.4                    |
| MAIN.....   | Illinois; and portions of Iowa, Michigan, Missouri, and Wisconsin  | 37.9                  | 71.3         | 28.6         | 21.8         | 73.5                     |
| MAPP(US).....                                       | Minnesota; North Dakota; and portions of Iowa, Montana, Nebraska, South Dakota, Wisconsin, and Wyoming   | 36.3                  | 31.0         | 26.4         | 20.0         | 81.8                     |
| NPCC(US).....                                       | Connecticut; Maine; Massachusetts; New Hampshire; New York; Rhode Island; and Vermont  | 186.3                 | 169.1        | 141.9        | 104.1        | 79.0                     |
| SERC.....   | Alabama; Florida; Georgia; North Carolina; South Carolina; Tennessee; and portions of Kentucky, Mississippi, and Virginia                        | 95.8                  | 85.2         | 86.8         | 88.5         | 8.2                      |
| SPP.....  | Arkansas; Louisiana; Kansas; Oklahoma; and portions of Mississippi, Missouri, New Mexico, and Texas  | 67.6                  | 52.1         | 49.1         | 37.7         | 79.4                     |
| WSCC(US).....                                       | Arizona; California; Colorado; Idaho; Nevada; Oregon; Utah; Washington; and portions of Montana, Nebraska, New Mexico, South Dakota, and Wyoming | 200.2                 | 142.4        | 132.0        | 141.3        | 41.7                     |
| <b>Contiguous U.S. Total.....</b>                   |  | <b>889.6</b>          | <b>712.5</b> | <b>658.6</b> | <b>563.3</b> | <b>57.9</b>              |
| <b>Sales for Resale by Investor-Owned Utilities</b> |  |                       |              |              |              |                          |
| ECAR.....   | Same as Above  | 152.8                 | 114.6        | 132.0        | 117.6        | 30.0                     |
| ERCOT.....  |  | 10.8                  | 8.8          | 8.0          | 9.7          | 11.5                     |
| MAAC.....   |  | 70.5                  | 41.8         | 45.9         | 19.1         | 269.0                    |
| MAIN.....   |  | 51.2                  | 46.1         | 26.5         | 29.2         | 75.0                     |
| MAPP.....   |  | 24.6                  | 21.7         | 18.6         | 18.0         | 36.5                     |
| NPCC.....   |  | 106.0                 | 102.4        | 95.5         | 70.5         | 50.2                     |
| SERC.....   |  | 95.8                  | 86.5         | 89.3         | 93.5         | 2.5                      |
| SPP.....  |  | 58.2                  | 50.0         | 45.3         | 35.5         | 63.7                     |
| WSCC.....   |  | 87.4                  | 57.9         | 53.3         | 51.0         | 71.3                     |
| <b>Contiguous U.S. Total.....</b>                   |  | <b>657.2</b>          | <b>529.7</b> | <b>514.4</b> | <b>444.2</b> | <b>48.0</b>              |

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska System Coordinating Council is not included. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

## Changing Electric Power Industry

The electric power industry is undergoing fundamental changes reflected by its evolving structure. For many years, the industry was dominated by locally franchised, vertically integrated utilities, regulated by State regulatory agencies. This picture has changed and the pace of restructuring of the electric power industry in the United States has increased, with elec-

tricity generation markets being opened first to competition. The initial start that moved the industry toward competition stemmed from the unanticipated operational impacts of the Public Utility Regulatory Policies Act of 1978 (PURPA), which encouraged the supply of wholesale power to electric utilities from nontraditional sources (i.e., renewable energy sources). The FERC released two regulatory actions (Orders 888 and 889)<sup>3</sup> that will alter wholesale trading practices and transmission access.

<sup>3</sup> Federal Energy Regulatory Commission, *Promoting Wholesale Competition Through Open Access Nondiscriminatory Transmission Services by Public Utilities*, Order No. 888 and 889 issued in April 1996.

## Trading Highlights

A large amount of the electricity generated in the United States is traded under wholesale purchases and sales for resale contracts. The vast majority of wholesale transactions for investor-owned, Federal, and cooperative utilities involve utilities within the same NERC regional boundaries (See Table 5). Much of the historical differences between intra- and interregional wholesale power transactions result from the independent development of multiple transmission links among clusters of neighboring utilities. The criteria that justified this construction could be described as being based upon the line use for reliability support, then, capacity transactions, and later split-the-savings energy transactions. Today, competitive market transactions are having the largest impact on interregional trade. There was a 216 percent increase in interregional trade by investor-owned utilities and a 51 percent increase by cooperatives since 1990. The impact of competition has also been felt in the firm and nonfirm categories of electricity transactions. The shift is evident in the percent change from 1990 to 1996. Nonfirm purchases and sale for resale increased by 126 and 79 percent, respectively, while firm purchases rose by 14 percent and sales for resale by 20 percent (Table 6).

In 1996, there was an increase of 23 percent in purchased power and exchanges received over the prior year. This trend held for sales for resale and exchanges delivered (26 percent). This percent increase from the year earlier was the largest single year increase and represents a significant increase in wholesale trade transactions when compared to all the prior year changes. The NERC regions of ERCOT,

MAAC, NPCC, and WSCC all showed major increases. None of the contiguous NERC regions showed any declines (Table 4). Much of this change can be attributed to a shift in the electric utility industry's practices. Competition in the wholesale transaction markets had started to replace split-the-savings trading and exchange trades are disappearing.

Electricity purchases by investor-owned utilities have increased by 58 percent between 1990 and 1996. This change is illustrated in a regional comparison of purchases and sales for resale by investor-owned electric utilities (Table ES1) for 1990, 1992, 1994, and 1996. Transactions by investor-owned electric utilities represent over 51 percent of the transactions in the bulk power market (Table 2). Purchases from all sources by major investor-owned utilities totaled 369.9 billion kilowatthours of firm power for \$18.6 billion and 496.6 billion kilowatthours of nonfirm energy for \$13.6 billion in 1996 (Table 8). When miscellaneous transactions are included, these investor-owned utilities paid a total of \$33.0 billion dollars for the purchase of 889.6 billion kilowatthours.

Investor-owned utilities exchanged approximately 69 billion kilowatthours of electricity with other utilities for both receipts and deliveries (Table 10). The most exchange activity occurred in ERCOT and WSCC, with 34 and 23 billion kilowatthours each in receipts and deliveries, respectively. Trade in the two regions accounted for 82 percent of exchanges with other utilities.

**Table ES2. Electricity Data, by Source**

| Form   | Data Utilized   |
|--|---|
| Form EIA-412, "Annual Report of Public Electric Utilities ".....   | Detailed transactions for sales for resale and purchases.                         |
| Form EIA-861, "Annual Electric Utility Report ".....   | Aggregated transactions for sales for resale, purchases, exchanges, and wheeling. |
| Form FE-781R, "Annual Report of International Electrical Export/Import Data ".....   | Detailed transactions for exports from and imports to the United States           |
| FERC Form 1, "Annual Report of Major Public Utilities, Licensees and Others ".....   | Detailed transactions for sales for resale, purchases, exchanges, and wheeling    |
| FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees ".....  | Detailed transactions for sales for resale, purchases, exchanges, and wheeling.   |
| RUS Form 7, "Financial and Statistical Reports Reports--Electric Distribution Borrowers ".....   | Detailed transactions for purchases.  |
| RUS Form 12a through 12i, "Electric Power Supply Borrowers, " and REA Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities "..... | Detailed transactions for purchases.  |

Federal utilities purchased 11.2 billion kilowatthours for \$208.5 million dollars (Table 25), but sold 196.3 billion kilowatthours for \$5.4 billion dollars. Cooper-

atives purchased 332.5 billion kilowatthours for \$13.1 billion dollars (Table 14). The exchanges reported with noninvestor-owned utilities in 1996 (Table 11), were mostly by Federal utilities, accounting for about



half of the exchanges. The next largest sector was the cooperative grouping.

### **Sources of Information**

The publication *Electric Trade in the United States 1996* draws information from multiple sources of data collected by different Federal agencies. The list of sources is identified in Table ES2. To assist the reader, information on compilation of the data, limitations of coverage, and quality have been provided at the end of Chapter 1 and in the Technical Notes, Glossary of Terms, and other Appendices at the end of the publication.

# 1. Introduction

## Background

Wholesale trade in electricity plays an important role for the U.S. electric utility industry. Wholesale, or bulk power, transactions allow electric utilities to reduce power costs, increase power supply options, and improve reliability. In 1996, the wholesale trade market totaled 2.3 trillion kilowatthours, over 73 percent of total sales to ultimate consumers.

This publication, *Electric Trade in the United States 1996 (ELECTRA)*, is the sixth in a series of reports on wholesale power transactions prepared by the Office of Coal, Nuclear, Electric and Alternate Fuels, Energy Information Administration (EIA). The electric trade data are published biennially. The first report presented 1986 data, and this report provides information on the electric power industry during 1996.

The electric trade data collected and presented in this report furnish important information on the wholesale structure found within the U.S. electric power industry. The patterns of interutility trade in the report support analyses of wholesale power transactions and provide input for a broader understanding of bulk power market issues that define the emerging national electric energy policies. The report includes information on the quantity of power purchased, sold, exchanged, and wheeled; the geographical locations of transactions and ownership classes involved; and the revenues and costs.

## The Electric Power Industry Structure

The utilities covered in this publication include all U.S. electric utilities in the 50 States and the District of Columbia. Electric utilities fall into four basic ownership classifications: investor-owned (privately owned), publicly owned, cooperative, and power marketers. Publicly owned utilities may be Federally owned, State-owned, or municipally owned. In 1996, there were 3,195 electric utilities in the United States. Of these, 2,020 were publicly owned (including 10

Federal utilities), 932 were rural electric cooperatives, and 243 were investor-owned utilities (Table 1). Some of these electric utilities have service territories extending beyond a single county or parish. Others just serve a municipality or part of a county. Most counties in the United States have more than a single utility and some parts of the country have multiple electric utilities operating in a county. Many of the Nation's electric utilities are exclusively distribution utilities, that is, they purchase wholesale power from other utilities and distribute, on their own distribution lines, the electricity to ultimate consumers. For example, fewer than 1,000<sup>4</sup> of the 3,195 utilities in the United States are engaged in power generation. In order to move electricity from utilities with generating capability to the distribution utilities, an extensive system of high voltage transmission lines is operated by the Nation's largest utilities. This transmission network permits the electric trade between utilities, because without it electricity could not be moved from power plants to the thousands of distribution systems and millions of consumers of electric power.

### *Investor-Owned Utilities*

There are several basic organizational forms among investor-owned companies. The most prevalent is the single corporation. Another common form is the holding company in which a parent company is established to own one or more operating utility companies which are integrated with one another. The Public Utility Holding Company Act of 1935 requires that the utilities owned by a holding company operate as a single integrated utility system.

Most of the investor-owned utilities sell power at retail rates to several different classes of customers and at wholesale rates to investor-owned, Federal, State, and local government utilities, public utility districts, and rural electric cooperatives. A wholesale customer can be a distribution utility with little or no generating capacity of its own or another integrated utility that purchases power to supplement its own generation or for economic reasons.

<sup>4</sup> Energy Information Administration Form EIA-860, "Annual Electric Generator Report."

## **Publicly Owned Utilities**

Publicly owned electric utilities represent 62 percent of the total number of U.S. electric utilities but accounted for only 15 percent of sales to ultimate consumers in 1996. Publicly owned utilities include Federal utilities, State and other government owned utilities (irrigation districts, public power districts, and State authorities and other organizations), and municipal utilities.

Federal power plants generate more than 9 percent of the total electricity in the United States that is sold to the power grids. Federal generated energy comes primarily from hydroelectric facilities operated by the U. S. Army Corps of Engineers and the Bureau of Reclamation of the U.S. Department of Interior. Electricity is also generated by the Bureau of Indian Affairs and the International Boundary and Water Commission. Energy generated by these producers is marketed (along with any of their own generation) by the five Federal power marketing administrations: Bonneville (in the northwestern United States), Southeastern, Southwestern, Western Area, and Alaska (sold in 1998). The power marketing administrations are part of the U.S. Department of Energy and operate in all States except those in the Northeast, upper Midwest, and Hawaii. The Tennessee Valley Authority generates electricity from coal and nuclear power as well as hydropower. It is the largest Federal power producer and markets electricity in both the wholesale and retail markets. In addition, the U.S. Department of Defense sells a small quantity of power, generated by Federal nonutilities, to the power grid.

Approximately 15 percent of the electricity generated by Federal utilities is sold to retail customers which are usually large industrial customers or Federal installations. Most of the remaining energy is sold to publicly owned utilities and rural cooperatives for resale. These wholesale customers have a legal preference right to Federal electricity. Only the surplus remaining after meeting the energy requirements of preference customers is sold to the investor-owned utilities.

Municipal utilities account for 57 percent of the number of electric utilities in the United States, but produce less than 5 percent of total net generation provided by electric utilities. Municipal utilities tend to be concentrated in cities where the loads are small. They exist in every State except Hawaii, but are concentrated, predominately in the Midwest and Southeast. In general, municipal utilities tend to have lower costs than investor-owned utilities because they generally have access to bonds supported by tax based funds and do not pay certain taxes or dividends. They also have high-density service areas.

The other publicly owned utilities include State authorities, public power districts, irrigation districts, and other State organizations. State authorities are

utilities that function in a manner similar to Federal utilities. They generate or purchase electricity from other utilities and market large quantities wholesale to groups of utilities within their States at lower prices than the individual utilities would otherwise pay. The public power districts tend to be concentrated in Nebraska, Washington, Oregon, Arizona, and California. Appendix Tables B2 through B4 contain listings of the public power municipals, State authorities, and Federal utilities used in this publication.

## **Rural Electric Cooperatives**

Most rural electric cooperative utilities are formed and owned by groups of residents in rural areas to supply power to those areas. Some cooperatives may be owned by a number of other cooperatives. (There are really three types of cooperatives: (1) distribution only; (2) distribution with power supply; and (3) generation and transmission.) Cooperatives currently operate in 46 States, and represent 29 percent of the total utilities in the country. Most distribution cooperatives resemble municipal utilities in that they often do not generate electricity, but purchase it from other utilities. The other type (generating and transmission cooperatives) are usually referred to as power supply cooperatives. These cooperatives are usually owned by the distribution cooperatives to whom they supply wholesale power. Distribution cooperatives resemble Federal utilities by supplying electricity to other utility customers from their generating capability. Cooperatives accounted for more than 8 percent of sales to ultimate consumers and almost 6 percent of net generation produced by electric utilities in 1996.

## **Power Marketers**

Actions initiated by the Federal Energy Regulatory Commission (FERC) has changed the composition and nomenclature of the electric utility industry. FERC has modified its regulatory requirements to permit business entities to file for rate tariffs in order to buy and sell electricity at wholesale among all electric utilities.<sup>5</sup> These new entities are called *power marketers* --members do not have to own or operate generation, transmission, or distribution facilities, but are considered electric utilities by the FERC. Table 1 shows a count of 65 active power marketers in 1996. These power marketers purchased over 216 billion kilowatthours and sold more than 214 billion kilowatthours (Table 2). Thus, the now active entry of marketers combined with new power generator not only constitutes a strong change to the electric utility industry, but also propels the industry on its path to market competition.

<sup>5</sup> On May 19, 1986, the FERC approved the rate tariff for Citizens Energy Corp. (EL86-2-000), which became the first marketer. Only 3 more authorizations were granted before 1990.

The Edison Electric Institute (EEI) noted in its' publication, *Power Marketers Yearbook 1996*, that "power marketer is a regulatory classification encompassing a wide variety of businesses" and provided " a breakout of marketers based on their business activities, or those of their corporate affiliates.<sup>6</sup> " (The classifications are identified in the footnote.) The structure proposed by EEI represents one approach to describing these new participants and the diversity of trading activities in the new competitive markets. Yet, even this structural classification does not describe the magnitude of physical and financial transactions which may or may not link actual physical transactions with risk management protection options or are just strict financial resales done to maintain a daily balanced trade position. Some or all of these classifications may become accepted as standard nomenclature to describe these new participants in the electric power industry. However, the classifications do help by putting into perspective what may be the primary emphasis in the types of trades made by these power marketers.

The count of power marketers shown in Table 1 differs from the list of power marketers granted approved tariffs by the Federal Energy Regulatory Commission. Table 1 shows the count of power marketers that did enter into and make trade transactions while Appendix Table B7 lists, by company, the reported aggregated totals. Within these transactions totals reported in Table 2, there is present, for power marketers, a disconnect from the data reported by the investor-owned, public, and cooperative utilities reported in the detailed tables of this publication. The detailed reporting of counter party transactions among power marketers is not collected since these companies are not obligated to report on the principal forms (Table ES2) used to produce this publication. Table 2 does identify the aggregate total of all power marketer transactions, but the estimates cover both physical and financial (commercial paper sales and resale of a product, but without taking physical possession of the product) trades.

On the whole, power marketers do not generate or actually use electricity. They purchase it and move the

ownership along to another power marketer via a resale (financial) or sell it to a party which will take physical possession for the eventual consumption of that energy. The total megawatthours of booked financial transactions (included in this is the buying and selling of electric future options) are high when compared to the original physical purchase of the generated electricity. Investor-owned utilities' purchase power and sales for resale transactions with power marketers are over one-fourth what Table 2 shows for the combined physical and financial trades made by power marketers. Yet, this number should not be considered as final, since many utilities are active traders and are using more and more risk management tools in association with their trades. EEI has estimated that of the power marketers transactions, they purchased and resold among themselves 47 and 49 percent of the reported transactions, respectively, while investor-owned utilities were involved in 31 percent of the purchases and 30 percent of sales for this same total set of transactions.<sup>7</sup>

## Changing Electric Power Industry

The electric power industry is undergoing fundamental changes reflected by its evolving structure. For many years, the industry was dominated by locally franchised, vertically integrated utilities, regulated by State regulatory agencies. This picture has changed and the pace of restructuring of the electric power industry in the United States has increased, with electricity generation markets being opened first to competition. The initial start that moved the industry toward competition stemmed from the unanticipated operational impacts of the Public Utility Regulatory Policies Act of 1978 (PURPA), which encouraged the supply of wholesale power to electric utilities from nontraditional sources (i.e., renewable energy sources).<sup>8</sup>

<sup>6</sup> *Electric Utility Affiliates*-- any company in which an electric utility (including investor-owned utilities, foreign utilities, public power and cooperatives) has a 10-percent voting interest, or has been found to be affiliated by the FERC. *Energy Consultants*-- companies providing energy management, regulatory, and/or engineering services to wholesale and end-use customers or utilities. *Entrepreneurs*--start-up companies not otherwise engaged in energy-related businesses. *Financial Intermediaries*-- companies (often affiliated with large financial institutions) primarily engaged in commodity trading and risk management activities. *Fuel Suppliers*-- companies engaged in the production, transportation, marketing, and/or retail sales of various fuels (natural gas, oil, coal, etc.)-- predominantly natural gas marketers. *Industrials*-- large industrial customers engaged in the sale of excess cogeneration capacity or in procuring energy for own needs. *Nonutility Generators*-- companies engaged in the development and operation of generation projects not in a utility's rate base (cogenerators, small power producers, exempt wholesale generators etc.) *Telecom Companies*-- telecommunication companies not otherwise engaged in energy-related business. Edison Electric Institute, *Power Marketers Yearbook 1996*, Washington, DC, 1997), pg., 19.

<sup>7</sup> Edison Electric Institute, *Power Marketers Yearbook 1996*, (Washington, DC, 1997), pg., 16.

<sup>8</sup> PURPA's primary objective was to encourage improvements in energy efficiency through the expanded use of cogeneration and by creating a market for electricity produced from unconventional sources like renewables and waste fuels. While preserving the industry's vertically integrated structure, PURPA aimed at a modest modification by adding the obligation to look to nontraditional supplies in conjunction with utilities' existing and proposed generating capabilities. No changes, therefore, were postulated to the cost-based pricing of electricity regulation. Yet, by encouraging nonutility power generation and by making such output easily marketable on a wholesale basis, PURPA's provisions introduced several, far-reaching operational and regulatory changes in the electric utility industry. In the evolving wholesale market for electric power, PURPA's most notable contribution was to introduce competition while taking future supply options into account. For a further discussion on this subject, see Energy Information Administration *The Changing Structure of the Electric Power Industry: An Update*, DOE/EIA-0562(96)(Washington DC, December 1996).

## ***Nonutility Generation in Electric Trade***

While the inroads made by nonutility power generators into the generation monopoly were a positive force, the impact on utilities and prices came from increasing the generating capability in the United States from these sources. The electricity-related provisions of the Energy Policy Act of 1992 (EPACT) then became the catalyst for accelerating the pace of competition in electricity trade at the wholesale level.

More specifically, the EPACT provisions amended the Public Utility Holding Company Act of 1935, the Federal Power Act of 1935, and the PURPA provisions in the areas that govern, among other things, the future of nonutility power generation and the associated wholesale power transactions. Of the several EPACT provisions that affect electric utilities, the two designed to further industry competition are: (1) creating a new class of exempt wholesale generators (EWGs) and (2) expanding the authority of the FERC to order open transmission access under Section 211 of the Federal Power Act. The responsibility to determine the EWG status and to ensure the availability of transmission facilities in a nondiscriminatory manner was entrusted to the FERC.

Based on the above legislative mandate and regulatory rulemaking procedures, the FERC has pushed to introduce wholesale competition in electricity. Its two landmark rulings, Order No. 888 and Order No. 889,<sup>9</sup> issued in April 1996, require all public utilities that own, control, or operate transmission facilities to file nondiscriminatory open-access tariffs that would be applied to all parties contracting for transmission service (Appendix A). Since these Orders were issued, activity to open electricity markets to competition has increased significantly at the State and Federal levels.

The growing role of nonutility generators (NUG) in electricity supply reflects the acceptance of alternative power supplies in the wholesale electric power market. The near monopoly of electric generation by regulated electric utilities has ended, as many new participants generate electricity and sell power to electric utilities, thus changing long-established institutional relationships.

Differences remain between traditional electric utilities and nonutility power generators for many reasons, including the passage of new legislation and the application of regulations designed specifically for nonutility generators. For example, a traditional definition of a utility might simply include any business entity

whose principal business is generating and selling electricity. This definition would exclude industrial generators and cogenerators, the principal nonutility generators organizations producing power but which are primarily engaged in business activities other than power sales.

A more common definition of an electric utility includes three elements: a franchised service territory; the obligation to serve all customers within this exclusive area; and the regulations that constitute this compact. This definition, however, ignores utilities without retail customers such as generation and transmission companies. All generators of electricity without a service area and with a contractual obligation to serve would be considered nonutilities under this definition. Even with this definition, there are various classes of nonutility generators, some of which reflect regulatory distinctions and others, which have evolved over time and may be less precise and overlapping: independent power producers (IPP), nonutility generators (NUG),<sup>10</sup> small power producers (SPP), qualifying facilities (QF), and industrial power producers. Despite the variety of definitions, nonutility power producers are generally considered to be the nontraditional producers of electric energy (i.e., producers that are neither traditional Federal, State, investor-owned, cooperative, nor municipal utilities).

The Federal Government and other users of electric generation data are interested in this nontraditional generation group because, as nonutility power producers increase their level of production of electric energy, the group becomes a more important segment of the U. S. electric power industry. Nonutility power producers sold over 230 billion kilowatthours in 1996 (Table 2). As one of the fastest growing segments of the electric power industry, nonutility power producers may be responsible for a significant portion of new power plant construction. This group is, therefore, of great interest to analysts of the electric power industry. Analysis of the electric utility industry is complicated by the changing structure of the industry--which now includes a significant number and wide range of nonutility participants--and by the changing mix of transactions that characterize electric trade.

## ***Transmission Services and Energy Broker/Marketers***

The Energy Policy Act of 1992 (EPACT) amended the Federal Power Act (FPA) to allow any electric utility to apply to the FERC for an order requiring another utility to provide transmission services (wheeling). Prior to EPACT, FERC could not mandate an electric utility to provide wheeling services for wholesale electric trade. This change in the law will permit operators of electric generating equipment to sell wholesale power (sales for resale) to noncontiguous

<sup>9</sup> Final Order No. 888 is described in Docket Nos. RM95-8-000 and RM94-7001, Promoting Wholesale Competition through Open Access Non-discriminatory Transmission Services by Public Utilities; Recover of Stranded Costs by Public Utilities and Transmitting Utilities. Order No. 889 is found under Docket No. RM95-9-000, Open Access Same-Time Information System and Standards of Conduct.

<sup>10</sup> No specific legislative or regulatory definition exists for the term "nonutility." Therefore, it cannot be assumed that if an entity does not qualify as a utility that it is then a nonutility.

**Table 1. Number of Electric Utilities by Class of Ownership Within NERC Region, 1996**

| NERC Region                | Power Marketers | Investor-Owned | Federal <sup>1</sup> | State and Other Government | Municipals   | Cooperatives | U.S. Total   |
|----------------------------|-----------------|----------------|----------------------|----------------------------|--------------|--------------|--------------|
| <b>Number of Utilities</b> |                 |                |                      |                            |              |              |              |
| ASCC.....                  | 0               | 23             | 1                    | 7                          | 30           | 21           | 82           |
| ECAR.....                  | 3               | 43             | 0                    | 4                          | 222          | 109          | 381          |
| ERCOT.....                 | 15              | 6              | 0                    | 3                          | 63           | 60           | 147          |
| MAAC.....                  | 6               | 18             | 0                    | 0                          | 50           | 19           | 93           |
| MAIN.....                  | 4               | 18             | 1                    | 0                          | 148          | 46           | 217          |
| MAPP.....                  | 4               | 14             | 0                    | 37                         | 452          | 182          | 689          |
| NPCC.....                  | 12              | 55             | 0                    | 3                          | 123          | 10           | 203          |
| SERC.....                  | 8               | 19             | 2                    | 4                          | 316          | 189          | 538          |
| SPP.....                   | 2               | 17             | 1                    | 8                          | 289          | 157          | 474          |
| WSCC.....                  | 11              | 27             | 5                    | 79                         | 172          | 139          | 433          |
| Hawaii.....                | 0               | 3              | 0                    | 0                          | 0            | 0            | 3            |
| <b>U.S. Total.....</b>     | <b>65</b>       | <b>243</b>     | <b>10</b>            | <b>145</b>                 | <b>1,865</b> | <b>932</b>   | <b>3,260</b> |
| <b>Percent</b>             |                 |                |                      |                            |              |              |              |
| ASCC.....                  | 0               | 9              | 10                   | 5                          | 2            | 2            | 3            |
| ECAR.....                  | 5               | 18             | 0                    | 3                          | 12           | 12           | 12           |
| ERCOT.....                 | 23              | 2              | 0                    | 2                          | 3            | 6            | 5            |
| MAAC.....                  | 9               | 7              | 0                    | 0                          | 3            | 2            | 3            |
| MAIN.....                  | 6               | 7              | 10                   | 0                          | 8            | 5            | 7            |
| MAPP.....                  | 6               | 6              | 0                    | 26                         | 24           | 20           | 21           |
| NPCC.....                  | 18              | 23             | 0                    | 2                          | 7            | 1            | 6            |
| SERC.....                  | 12              | 8              | 20                   | 3                          | 17           | 20           | 17           |
| SPP.....                   | 3               | 7              | 10                   | 6                          | 15           | 17           | 15           |
| WSCC.....                  | 17              | 11             | 50                   | 54                         | 9            | 15           | 13           |
| Hawaii.....                | 0               | 1              | 0                    | 0                          | 0            | 0            | *            |

<sup>1</sup> The Federal Government both produces electricity and sells it at wholesale. Federal producers include the U.S. Army Corps of Engineers, Bureau of Indian Affairs, Bureau of Reclamation, and the International Boundary and Water Commission. The power marketing administrations of the U.S. Department of Energy are also federally owned utilities; they include the Alaska, Bonneville, Southeastern, Southwestern, and Western Area Power Administrations. The Tennessee Valley Authority both generates and markets electricity.

\* The value of the number is less than 0.5 percent.

Notes: •NERC is the North American Electric Reliability Council. See glossary for a list of regions. •Power Marketers are classified as electric utilities. The authorization to participate in wholesale trade is given by the FERC. •Percentages may not total 100 because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

utilities. The amendment to the FPA will also affect electricity marketers, a relatively new group under FERC's jurisdiction. Marketers are business entities engaged in buying and selling electricity, but with no generating or transmission facilities. Marketers take ownership of the electricity and are involved in inter-

state trade. A number of energy marketers that may be involved in interstate electricity trade have filed with FERC and have had their rates authorized. When ownership of the electricity is not taken, then those transactions are not regulated by FERC (the parties handling the transactions are called brokers).

**Figure 1. North American Electric Reliability Council Region Map for the United States**

## The Interconnected Networks

The U.S. bulk power system has evolved into three major networks (power grids), which also include smaller groupings or power pools. The major networks consist of extra-high voltage connections between individual utilities designed to permit the transfer of electrical energy from one part of the network to another. These transfers are restricted, on occasion, because of a lack of contractual arrangements or because of inadequate transmission capability (See Appendix C).

The three networks are (1) the Eastern Interconnected System, consisting of the eastern two-thirds of the United States; (2) the Western Interconnected System consisting primarily of the Southwest and areas west of the Rocky Mountains; and (3) the Texas Interconnected System. The latter is not interconnected with the other two networks (except by certain direct current lines). The two other networks have limited interconnections to each other. Both the Western and Texas Interconnect are linked with different parts of Mexico. The Eastern and Western Interconnects are completely integrated with most of Canada or have links to the Quebec Province power grid. Virtually all U.S. utilities are interconnected with at least one other utility by these three major grids. The exceptions are in Alaska and Hawaii. The interconnected utilities within each power grid coordinate operations and planning, and buy and sell power among themselves for the benefit of the customers.

Overall reliability planning and coordination of the interconnected power systems are the responsibility of the North American Electric Reliability Council (NERC). The NERC was voluntarily formed in 1968 by the electric utility industry as a result of the 1965 power failure in the Northeast. The regional councils cover the 48 contiguous States, part of Alaska,<sup>11</sup> and portions of Canada and Mexico (Figure 1) and are responsible for the overall coordination of bulk power policies that affect the reliability and adequacy of service in their areas. These councils also regularly exchange operating and planning information among their member utilities. The boundaries of the NERC regions follow the service areas of the electric utilities in the region. The service area of many electric utilities do not follow State boundaries. Hence, electric trade data are not available by State, but are presented by NERC regions, except for Hawaii

## Wholesale Trade Transactions

Wholesale electricity trade has become a major contributor to systems operations in the U.S. electric utility industry. In this publication, wholesale, or bulk power, transactions are categorized and defined in accordance with FERC reporting requirements. Wholesale power transactions include purchases, sales for resale, exchanges, and wheeling (i.e., transmission services). Purchase transactions involve buying power from electric utilities and nonutility producers of electricity. Sales for resale transactions refer to power sold by one electric utility to one or more utilities for distribution to ultimate consumers. Exchanges involve trading electric energy when supply and demand conditions are mutually advantageous and reversible for the participating parties. Exchanges are often based on time-dependent excess capacity or diversity in load requirements. With exchange transactions, monetary repayment or replacement of energy may extend over several years.

<sup>11</sup> The Alaska System Coordinating Council (ASCC) is an affiliate member of NERC.



**Table 2. Energy Account Balance by Class of Ownership, 1996**  
(Million Kilowatthours)

| Item                              | Power Marketers | Investor-Owned | Federal <sup>1</sup> | State and Other Government | Municipals | Cooperatives | U.S. Total |
|-----------------------------------|-----------------|----------------|----------------------|----------------------------|------------|--------------|------------|
| <b>Source of Energy</b>           |                 |                |                      |                            |            |              |            |
| Net Generation .....              | 44              | 2,272,095      | 309,182              | 196,028                    | 145,904    | 176,735      | 3,099,989  |
| Purchases from Utilities .....    | 216,405         | 667,356        | 12,539               | 86,469                     | 298,684    | 400,126      | 1,681,579  |
| Purchases from                    |                 |                |                      |                            |            |              |            |
| Nonutilities .....                | 1,382           | 224,571        | 2,143                | 486                        | 1,344      | 474          | 230,400    |
| Net Exchange <sup>2</sup> .....   | -20             | -360           | -15,505              | 2,497                      | 1,328      | 363          | -11,697    |
| Received .....                    | 1,912           | 70,440         | 34,432               | 10,531                     | 13,093     | 26,235       | 156,642    |
| Delivered .....                   | 1,932           | 70,800         | 49,936               | 8,034                      | 11,765     | 25,872       | 168,339    |
| Net Wheeling <sup>3</sup> .....   | 0               | 4,930          | 1,913                | 150                        | 101        | 230          | 7,324      |
| Received .....                    | 0               | 305,254        | 69,050               | 9,666                      | 25,103     | 8,712        | 417,784    |
| Delivered .....                   | 0               | 300,324        | 67,137               | 9,516                      | 25,002     | 8,482        | 410,460    |
| <b>Disposition of Energy</b>      |                 |                |                      |                            |            |              |            |
| Sales to Ultimate Consumers ..... | 3,418           | 2,342,808      | 45,626               | 102,197                    | 348,730    | 258,448      | 3,101,227  |
| Requirements and Nonrequirements  |                 |                |                      |                            |            |              |            |
| Sales for Resale .....            | 214,130         | 644,246        | 249,259              | 168,114                    | 76,322     | 293,239      | 1,645,309  |
| Energy Furnished                  |                 |                |                      |                            |            |              |            |
| Without Charge .....              | 0               | 3,152          | 230                  | 1,234                      | 1,417      | 173          | 6,205      |
| Energy Used by Utility .....      | 0               | 5,301          | 1,369                | 5,454                      | 1,282      | 480          | 13,886     |
| Energy Losses <sup>4</sup> .....  | 187             | 171,855        | 13,711               | 8,501                      | 19,069     | 25,559       | 238,882    |

<sup>1</sup> Federal authorities use different accounting methods for reporting energy received from Federal generating assets; the energy may be reported as generation or purchases.

<sup>2</sup> Reported as power exchange in account 555, "Purchased Power Transactions," of the FERC Uniform System of Accounts.

<sup>3</sup> Reported as transmission services in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts.

<sup>4</sup> These values are not measured; however, they represent losses and unaccounted for energy. These values are calculated in order that source and disposition of energy are equivalent.

Notes: •Annual net generation data shown here should be used only in comparison with other Form EIA-861 data. Total annual net generation data are published by the Energy Information Administration from its Form EIA-759, "Monthly Power Plant Report." •Source and disposition are the aggregation of data reported for each utility; these data are not additive due to double counting. Purchases from utilities, net exchange and net wheeling (except for imports) are included in net generation. Sales for resale are included in sales to ultimate consumers. •Imports and exports are included in purchases, sales for resale, net exchanges, and/or wheeling. •Due to the complexity of electric power transactions that involve specifics of contracts, simultaneous energy transactions, the unintended receipt and delivery of energy (inadvertent flow) and losses, uniformity in reporting the classification and quantity of each transaction among utilities may not exist. •Power Marketers are classified as electric utilities. The authorization to participate in wholesale trade is given by the FERC. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Most bulk power transfers involve neighboring utilities whose systems are directly interconnected. At other times, however, bulk power transfers involve a third utility situated between two unconnected utilities that want to enter into a bulk power transaction. In that transaction, the third (intervening) utility allows its transmission lines to be used for bulk power transfers between the two other utilities. This intervening utility is providing a form of transmission service known as wheeling. Wheeling is generally defined as the movement of electricity from one system to another over the transmission facilities of an intervening system. (Technically, there is two-party wheeling: (1) seller and wheeler and (2) purchaser.) Wheeling is conducted under terms and conditions that ensure safety and reliability and that prevent the wheeling utility from being unfairly burdened with added costs.

Table 3 provides an overview of wholesale and retail transactions in the electric utility system by NERC region. The table includes data on net generation, purchases, energy losses, sales to ultimate consumers, and electric trade transactions. Electricity is purchased by all classes of electric utilities. Purchases from nonutilities accounted for over 7 percent of sales

to consumers in 1996. These purchases are made generally by utilities in whose service territories the nonutilities are located. Losses represent energy lost in transmission, distribution, and power unaccounted for, which amounted to nearly 8 percent of sales to consumers in 1996. Electricity inflows--purchases, exchanges-in, and wheeling-in--represent 73 percent of sales to consumers. Table 4 presents a historical view of electric trade flows (including net generation) and how components of electric trade changed for years 1988 through 1996.

Chapters 1 through 4 of this publication focus on purchases, sales for resale, exchanges, and wheeling of electricity (columns 4 and 5 of Table 3). Data for energy flows represent the summations of flows of energy between utilities in accordance with the provisions of their service agreements. These flows represent accounting transactions rather than metered flows. Detailed coverage of wholesale trade activities by NERC region for each class of ownership is presented in Chapters 2 through 4. The electricity transactions reported in the remaining chapters do not include transmission and distribution losses.

## Categories of Wholesale Trade Transactions

There are two main types of bulk power transactions: coordination transactions and requirement transactions. Coordination transactions are interruptible and generally represent short term sales as contrasted to requirement transactions which usually are established for longer periods of time. Requirement transactions cover power supply contracts in which firm

service equates to the energy needs required by a designated customer base plus coverage of associated electrical losses and the electrical energy is supplied by other utilities. The duration of the sale and the type of capacity sold are key factors in determining the type and value of the transaction. The length of the sale can be 1 hour, several months, a year, or longer. Another type of transaction is an exchange in which the energy usually is returned in kind at a date agreed upon by both utilities.

**Table 3. Components of Source and Disposition of Electricity by NERC Region, 1996**

| NERC Region                 | Net Generation   | Energy Furnished and Used by Utility | Nonutility Purchases | Purchases, Exchange In, Wheeling In <sup>1</sup> | Sales for Resale, Exchange Out, Wheeling Out <sup>2</sup> | Total Region Energy Loss | Sales to Ultimate Consumer |
|-----------------------------|------------------|--------------------------------------|----------------------|--|---|--------------------------|----------------------------|
| <b>Energy (million kWh)</b> |                  |                                      |                      |  |   |                          |                            |
| ASCC.....                   | 5,178            | 36                                   | 5                    | 4,252  | 4,257   | 364                      | 4,779                      |
| ECAR.....                   | 528,214          | 1,258                                | 15,861               | 267,574  | 292,869   | 33,689                   | 483,750                    |
| ERCOT.....                  | 218,497          | 315                                  | 25,220               | 221,729  | 212,683   | 16,227                   | 236,131                    |
| MAAC.....                   | 200,713          | 3,604                                | 23,892               | 137,554  | 113,460   | 16,078                   | 229,013                    |
| MAIN.....                   | 231,315          | 786                                  | 517                  | 78,449   | 72,968  | 16,424                   | 220,042                    |
| MAPP.....                   | 132,689          | 653                                  | 736                  | 127,606  | 108,282   | 14,194                   | 137,767                    |
| NPCC.....                   | 185,521          | 794                                  | 56,207               | 269,310  | 249,748   | 18,656                   | 241,366                    |
| SERC.....                   | 740,784          | 2,472                                | 31,276               | 436,039  | 442,377   | 48,083                   | 715,118                    |
| SPP.....                    | 276,205          | 1,100                                | 6,090                | 198,805  | 181,240   | 21,551                   | 277,115                    |
| WSCC.....                   | 574,878          | 9,053                                | 67,028               | 514,684  | 546,219   | 53,067                   | 547,156                    |
| Hawaii.....                 | 5,994            | 20                                   | 3,568                | 4  | 7   | 549                      | 8,991                      |
| <b>U.S. Total.....</b>      | <b>3,099,989</b> | <b>20,092</b>                        | <b>230,400</b>       | <b>2,256,006</b>                                 | <b>2,224,109</b>  | <b>238,882</b>           | <b>3,101,227</b>           |
| <b>Percent</b>              |                  |                                      |                      |  |   |                          |                            |
| ASCC.....                   | *                | *                                    | *                    | *  | *   | *                        | *                          |
| ECAR.....                   | 17               | 6                                    | 7                    | 12   | 13  | 14                       | 16                         |
| ERCOT.....                  | 7                | 2                                    | 11                   | 10   | 10  | 7                        | 8                          |
| MAAC.....                   | 6                | 18                                   | 10                   | 6  | 5   | 7                        | 7                          |
| MAIN.....                   | 7                | 4                                    | *                    | 3  | 3   | 7                        | 7                          |
| MAPP.....                   | 4                | 3                                    | *                    | 6  | 5   | 6                        | 4                          |
| NPCC.....                   | 6                | 4                                    | 24                   | 12   | 11  | 8                        | 8                          |
| SERC.....                   | 24               | 12                                   | 14                   | 19   | 20  | 20                       | 23                         |
| SPP.....                    | 9                | 5                                    | 3                    | 9  | 8   | 9                        | 9                          |
| WSCC.....                   | 19               | 45                                   | 29                   | 23   | 25  | 22                       | 18                         |
| Hawaii.....                 | *                | *                                    | 2                    | *  | *   | *                        | *                          |

<sup>1</sup> Includes all trade into and within the region and purchases, exchange in, and wheeling in for all utilities operating within the region.

<sup>2</sup> Includes all trade out of and within the region and sales for resale, exchange out, and wheeling out for all utilities operating within the region.

\* The value of the number is less than 0.5 percent.

Notes: •Annual net generation data shown here should be used only in comparison with other Form EIA-861 data. Total annual net generation data are published by the Energy Information Administration from its Form EIA-759, "Monthly Power Plant Report." •NERC is the North American Electric Reliability Council. See glossary for a list of regions. •Table includes data from Power Marketers. •Totals may not equal sum of components because of independent rounding. Percentages may not total 100 because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Firm sales usually involve the sale of capacity, meaning that either the associated energy will be taken by the purchaser or the purchaser will pay for the capacity during those periods when the energy is not taken. This payment is called a demand charge. The delivery is scheduled as part of the normal operating conditions of the affected electric systems. Firm capacity may be made available from the selling utility's entire pool of generating facilities or from a specific generating unit. The capacity offered in these transactions is usually for a specified period of time and negotiated in advance of the trade. The associated energy purchased through a capacity sale usually has a separate cost from the demand charge.

One of the most common types of firm power transactions involves the transfer of full or partial requirements power. Requirement contracts involve electric utilities that have either insufficient or no generating

capability to satisfy their customer load. These utilities negotiate long-term, firm power contracts in which the terms and conditions obligate the selling electric utility to provide the buying electric utility a level of service equivalent to the seller's requirement to support its retail customers. An electric utility purchasing requirement power may have contracts with more than one electric utility in order to cover their customer base.

Nonfirm sales, sometimes called energy, economy, or interruptible sales, rarely have a demand or capacity charge included in the price of the transaction. These transactions are typically for short periods and subject to curtailment or cessation of delivery by the supplier in accordance with prior agreements or under specified conditions. Electric utilities engage in these transactions in order to gain operational savings, such as avoiding the use of more expensive fuels and

selling electricity generated by the spillage of excess reservoir water through a water-driven turbine-generator.

In addition to domestic wholesale transactions, U.S. utilities have engaged in international trade agreements with utilities from Canada and Mexico that cover a number of transaction options. These options include purchasing nonfirm energy from relatively inexpensive renewable resources, such as hydroelectric facilities in Canada and geothermal facilities in Mexico; acquiring additional generating capability to support the requirements for supply at U.S. electric utilities; the holding of reservoir water to be turned into electricity; and sharing the benefits of coordinated planning between the systems. Total imports from Canada and Mexico equaled 1.5 percent of total sales to ultimate consumers in the United States (Table 3 and 18). Exports represented 0.3 percent of utility net generation in the United States.

### ***Regional Receipts and Deliveries of Wholesale Power***

A large amount of the electricity generated in the United States is traded under wholesale purchases and sales for resale contracts. The vast majority of wholesale transactions for investor-owned, Federal, and cooperative utilities involve utilities within the same NERC regional boundaries. Many of the differences between intra- and interregional wholesale power transactions result from the historical development of multiple transmission links among clusters of neighboring utilities. In addition, the development of shared interconnection and coordination agreements among these groups of utilities help delineate the regional operating boundaries of electric utilities.

In 1996, there was an increase of 23 percent in purchased power and exchanges received over the prior year. This trend held for sales for resale and exchanges delivered (26 percent). This percent increase from the year earlier was the largest single year increase and represents a significant increase in wholesale trade transactions when compared to all the prior year changes. The NERC regions of ERCOT, MAAC, NPCC, and WSCC all showed major increases. None of the contiguous NERC regions showed any declines (Table 4). A shift in the electric utility industry's practices happened. Competition in the wholesale transaction markets had started to replace split-the-savings trading.

Investor-owned electric utilities have led the other classes in both intra- and interregional purchases and sales for resale. Interregional sources provided nearly 15 percent of investor-owned purchases in 1996, up from 7 percent in 1994. Cooperatives made interre-

gional purchases of over 7 percent while Federal utilities purchased dropped 83 percent (Table 5).

As shown in Table 6, both firm and nonfirm sales for resale represented just over 96 percent of investor-owned utilities resale transactions. Firm purchases accounted for 42 percent of the total while nonfirm were at a higher level (56 percent). (There was very little miscellaneous sales for resale and purchased power transactions.) Utilities in NPCC followed by the WSCC region purchased the most electricity in the firm category and reverse positions for the nonfirm category. Utilities in the ECAR region sold the most in both categories in 1996. The impact of competition has also been felt in the firm and nonfirm categories of electricity transactions. The shift is evident in the percent change from 1990 to 1996. Nonfirm purchases and sale for resale increased by 126 and 79 percent, respectively, while firm purchases rose by 14 percent and sales for resale by 20 percent (Table 6).

Table 7 shows wheeling trade in the U.S. by NERC Region for the years 1988 through 1996. Utilities in the WSCC region continued to do the most wheeling. The level of which is more than double the next region (NPCC) and represented close to 40 percent of all wheeling.

## **National and Regional Highlights**

The FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others," is used to collect annual data on electricity trade by quantity, cost, and revenue from investor-owned utilities. These data were used to construct the tables in Chapters 1 and 2 and show the quantity and value of firm and nonfirm electricity trade reported.

Purchases from all sources by major investor-owned utilities totaled 369.9 billion kilowatthours of firm power for \$18.6 billion and 496.6 billion kilowatthours of nonfirm energy for \$13.6 billion in 1996 (Table 8).

Investor-owned utilities exchanged approximately 69 billion kilowatthours of electricity with other utilities for both receipts and deliveries (Table 10). The most exchange activity occurred in ERCOT and WSCC, with 34 and 23 billion kilowatthours each in receipts and deliveries, respectively. Investor-owned electric utilities in the two regions accounted for 82 percent of exchanges with other utilities.

The exchanges reported with noninvestor-owned utilities in 1996 (Table 11), were mostly by Federal utilities, accounting for nearly half of the exchanges.

**Table 4. Electric Trade in the United States by NERC Region and Hawaii, 1988 Through 1996**  
(Million Kilowatthours)

| Year                          | Net Generation | Percent Change from Year Earlier | Purchases & Exchanges Received <sup>1</sup> | Percent Change from Year Earlier | Purchases & Exch. Rec. as Percent of Net Generation <sup>1</sup> | Sales to Ultimate Consumers | Percent Change from Year Earlier | Sales for Resale & Exchanges Delivered <sup>2</sup> | Percent Change from Year Earlier | Sales for Resale & Exch. Del. as Percent of Sales to Ultimate Consumers <sup>2</sup> |
|-------------------------------|----------------|----------------------------------|---|----------------------------------|--|-----------------------------|----------------------------------|---|----------------------------------|--|
| <b>All Utilities in ASCC</b>  |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996.....                     | 5,178          | 5.1                              | 3,437                                       | 0.0                              | 66.4   | 4,779                       | 3.2                              | 3,437   | 2.3                              | 71.9   |
| 1995.....                     | 4,925          | .2                               | 3,438                                       | 5.5                              | 69.8   | 4,631                       | 2.2                              | 3,359   | 3.3                              | 72.5   |
| 1994.....                     | 4,913          | 5.4                              | 3,257                                       | 26.1                             | 66.3   | 4,533                       | 3.6                              | 3,251   | 31.1                             | 71.7   |
| 1993.....                     | 4,660          | -1.6                             | 2,582                                       | 1.6                              | 55.4   | 4,374                       | .8                               | 2,480   | -2.4                             | 56.7   |
| 1992.....                     | 4,735          | 1.8                              | 2,543                                       | 7.6                              | 53.7   | 4,338                       | 2.0                              | 2,542   | 8.8                              | 58.6   |
| 1991.....                     | 4,654          | -1                               | 2,363                                       | .6                               | 50.8   | 4,255                       | .0                               | 2,336   | .2                               | 54.9   |
| 1990.....                     | 4,660          | 1.8                              | 2,347                                       | 2.9                              | 50.4   | 4,253                       | 2.7                              | 2,330   | 3.8                              | 54.8   |
| 1989.....                     | 4,575          | 2.6                              | 2,281                                       | 4.5                              | 49.8   | 4,142                       | 2.4                              | 2,244   | 3.1                              | 54.2   |
| 1988.....                     | 4,460          | 1.1                              | 2,183                                       | 4.9                              | 48.9   | 4,045                       | 2.6                              | 2,177   | 3.8                              | 53.8   |
| <b>All Utilities in ECAR</b>  |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996.....                     | 528,214        | 3.7                              | 223,608                                     | 16.1                             | 42.3   | 483,750                     | 1.4                              | 233,347   | 22.5                             | 48.2   |
| 1995.....                     | 509,468        | 3.5                              | 192,620                                     | 14.6                             | 37.8   | 477,126                     | 3.8                              | 190,512   | 13.0                             | 39.9   |
| 1994.....                     | 492,074        | -5                               | 168,139                                     | -1.2                             | 34.2   | 459,747                     | 2.8                              | 168,558   | -9.0                             | 36.7   |
| 1993.....                     | 494,602        | 2.3                              | 170,205                                     | 7.4                              | 34.4   | 447,062                     | 4.1                              | 185,300   | 2.3                              | 41.4   |
| 1992.....                     | 483,530        | -9                               | 158,417                                     | -4.2                             | 32.8   | 429,591                     | -2                               | 181,111   | -5.3                             | 42.2   |
| 1991.....                     | 488,102        | .6                               | 165,313                                     | -21.4                            | 33.9   | 430,314                     | 2.8                              | 191,274   | -22.2                            | 44.4   |
| 1990.....                     | 485,128        | -5                               | 210,322                                     | 13.8                             | 43.3   | 418,732                     | .9                               | 245,897   | 9.3                              | 58.7   |
| 1989.....                     | 487,659        | .1                               | 184,902                                     | 8.1                              | 37.9   | 414,977                     | 1.7                              | 224,880   | 3.3                              | 54.2   |
| 1988.....                     | 487,040        | 5.1                              | 170,991                                     | 13.4                             | 35.1   | 408,171                     | 4.7                              | 217,724   | 12.4                             | 53.3   |
| <b>All Utilities in ERCOT</b> |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996.....                     | 218,497        | 3.8                              | 226,921                                     | 83.6                             | 103.9  | 236,131                     | 6.1                              | 192,674   | 99.6                             | 81.6   |
| 1995.....                     | 210,596        | 3.1                              | 123,618                                     | 5.6                              | 58.7   | 222,465                     | 1.7                              | 96,532  | 8.6                              | 43.4   |
| 1994.....                     | 204,256        | 3.1                              | 117,023                                     | -6                               | 57.3   | 218,781                     | 3.1                              | 88,896  | .8                               | 40.6   |
| 1993.....                     | 198,187        | 4.1                              | 117,775                                     | 11.1                             | 59.4   | 212,182                     | 4.4                              | 88,169  | 11.8                             | 41.5   |
| 1992.....                     | 190,442        | -8                               | 105,972                                     | -4                               | 55.6   | 203,206                     | -5                               | 78,876  | -2.4                             | 38.8   |
| 1991.....                     | 192,000        | 1.8                              | 106,408                                     | 12.1                             | 55.4   | 204,319                     | 1.1                              | 80,853  | 17.9                             | 39.6   |
| 1990.....                     | 188,586        | 1.9                              | 94,932                                      | 2.0                              | 50.3   | 202,090                     | 3.3                              | 68,580  | 1.8                              | 33.9   |
| 1989.....                     | 185,011        | 3.1                              | 93,087                                      | -7                               | 50.3   | 195,648                     | 1.7                              | 67,372  | .1                               | 34.4   |
| 1988.....                     | 179,442        | 3.3                              | 93,782                                      | 4.0                              | 52.3   | 192,367                     | 4.3                              | 67,269  | 1.7                              | 35.0   |
| <b>All Utilities in HI</b>    |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996.....                     | 5,994          | 2.5                              | 3,572                                       | 1.4                              | 59.6   | 8,991                       | 2.1                              | 7   | -39.0                            | 0.1  |
| 1995.....                     | 5,851          | 2.1                              | 3,522                                       | 2.3                              | 60.2   | 8,806                       | 2.5                              | 11  | 69.9                             | .1   |
| 1994.....                     | 5,728          | -1.1                             | 3,444                                       | 10.9                             | 60.1   | 8,593                       | 3.2                              | 6   | 26.9                             | .1   |
| 1993.....                     | 5,790          | -11.7                            | 3,106                                       | 33.4                             | 53.6   | 8,325                       | -1                               | 5   | 65.5                             | .1   |
| 1992.....                     | 6,555          | -6.2                             | 2,328                                       | 45.1                             | 35.5   | 8,332                       | 2.2                              | 3   | -39.2                            | .0   |
| 1991.....                     | 6,991          | -9.8                             | 1,605                                       | 124.8                            | 22.9   | 8,154                       | 2.3                              | 5   | 10.4                             | .1   |
| 1990.....                     | 7,746          | .7                               | 714   | 57.9                             | 9.2  | 7,968                       | 4.2                              | 5   | 38.6                             | .1   |
| 1989.....                     | 7,692          | 2.6                              | 452   | -9.1                             | 5.9  | 7,649                       | 3.2                              | 3   | -96.3                            | .0   |
| 1988.....                     | 7,499          | 5.6                              | 497   | 3.3                              | 6.6  | 7,411                       | 5.4                              | 89  | 6.6                              | 1.2  |
| <b>All Utilities in MAAC</b>  |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996.....                     | 200,713        | -1.5                             | 141,174                                     | 41.7                             | 70.3   | 229,013                     | 0.6                              | 93,282  | 63.3                             | 40.7   |
| 1995.....                     | 203,801        | -1.2                             | 99,614                                      | 19.8                             | 48.9   | 227,532                     | 1.7                              | 57,120  | 17.8                             | 25.1   |
| 1994.....                     | 206,221        | .3                               | 83,121                                      | 4.0                              | 40.3   | 223,635                     | 1.6                              | 48,485  | 2.0                              | 21.7   |
| 1993.....                     | 205,552        | 6.3                              | 79,918                                      | -3.5                             | 38.9   | 220,037                     | 4.4                              | 47,526  | -4.3                             | 21.6   |
| 1992.....                     | 193,330        | -2.0                             | 82,808                                      | 5.2                              | 42.8   | 210,799                     | -9                               | 49,637  | 9.2                              | 23.5   |
| 1991.....                     | 197,235        | 2.0                              | 78,747                                      | 6.9                              | 39.9   | 212,728                     | 2.4                              | 45,447  | 3.6                              | 21.4   |
| 1990.....                     | 193,393        | -3                               | 73,631                                      | -5.5                             | 38.1   | 207,770                     | .2                               | 43,847  | -6.6                             | 21.1   |
| 1989.....                     | 193,889        | 1.0                              | 77,882                                      | 13.0                             | 40.2   | 207,325                     | 2.3                              | 46,930  | 16.9                             | 22.6   |
| 1988.....                     | 191,874        | 3.4                              | 68,904                                      | 7.3                              | 35.9   | 202,705                     | 5.8                              | 40,141  | -2.4                             | 19.8   |
| <b>All Utilities in MAIN</b>  |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996.....                     | 231,315        | 0.8                              | 71,270                                      | 16.6                             | 30.8   | 220,042                     | 0.6                              | 65,418  | 18.4                             | 29.7   |
| 1995.....                     | 229,424        | 3.4                              | 61,115                                      | -9                               | 26.6   | 218,728                     | 2.1                              | 55,271  | 2.8                              | 25.3   |
| 1994.....                     | 221,770        | 2.1                              | 61,661                                      | -2.0                             | 27.8   | 214,304                     | 3.5                              | 53,774  | -6.6                             | 25.1   |
| 1993.....                     | 217,284        | 8.5                              | 62,911                                      | 20.2                             | 28.9   | 207,004                     | 3.2                              | 57,590  | 54.4                             | 27.8   |
| 1992.....                     | 200,288        | -3.2                             | 52,321                                      | -4.1                             | 26.1   | 200,571                     | -6                               | 37,302  | -16.2                            | 18.6   |
| 1991.....                     | 206,906        | 2.6                              | 54,585                                      | -20.1                            | 26.4   | 201,815                     | 4.5                              | 44,527  | -28.4                            | 22.1   |
| 1990.....                     | 201,653        | .5                               | 68,308                                      | 9.2                              | 33.9   | 193,068                     | 2.5                              | 62,174  | 4.7                              | 32.2   |

See notes and footnotes at end of table.

**Table 4. Electric Trade in the United States by NERC Region and Hawaii, 1988 Through 1996**  
(Million Kilowatthours) (Continued)

| Year                         | Net Generation | Percent Change from Year Earlier | Purchases & Exchanges Received <sup>1</sup> | Percent Change from Year Earlier | Purchases & Exch. Rec. as Percent of Net Generation <sup>1</sup> | Sales to Ultimate Consumers | Percent Change from Year Earlier | Sales for Resale & Exchanges Delivered <sup>2</sup> | Percent Change from Year Earlier | Sales for Resale & Exch. Del. as Percent of Sales to Ultimate Consumers <sup>2</sup> |
|------------------------------|----------------|----------------------------------|---|----------------------------------|--|-----------------------------|----------------------------------|---|----------------------------------|--|
| <b>All Utilities in MAIN</b> |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1989 .....                   | 200,660        | 1.0                              | 62,575                                      | 10.1                             | 31.2   | 188,425                     | 1.6                              | 59,407  | 8.1                              | 31.5   |
| 1988 .....                   | 198,666        | 7.3                              | 56,841                                      | 4.1                              | 28.6   | 185,430                     | 4.9                              | 54,957  | 13.3                             | 29.6   |
| <b>All Utilities in MAPP</b> |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996 .....                   | 132,689        | 1.6                              | 110,598                                     | 15.9                             | 83.3   | 137,767                     | 2.4                              | 91,825  | 16.0                             | 66.6   |
| 1995 .....                   | 130,637        | 4.8                              | 95,413                                      | 6.0                              | 73.0   | 134,495                     | 4.3                              | 79,179  | 6.4                              | 58.9   |
| 1994 .....                   | 124,607        | -2                               | 90,020                                      | -2.6                             | 72.2   | 128,935                     | 3.9                              | 74,417  | -9.5                             | 57.7   |
| 1993 .....                   | 124,808        | 4.0                              | 92,441                                      | -18.7                            | 74.1   | 124,142                     | 5.8                              | 82,194  | -22.0                            | 66.2   |
| 1992 .....                   | 120,053        | -2.4                             | 113,672                                     | 8.1                              | 94.7   | 117,283                     | -2.7                             | 105,352   | 7.4                              | 89.8   |
| 1991 .....                   | 122,991        | 1.9                              | 105,175                                     | -2.1                             | 85.5   | 120,522                     | 4.0                              | 98,084  | -3.7                             | 81.4   |
| 1990 .....                   | 120,750        | 3.7                              | 107,416                                     | 2.3                              | 89.0   | 115,912                     | 1.9                              | 101,829   | 4.6                              | 87.8   |
| 1989 .....                   | 116,410        | -1.5                             | 105,038                                     | -1.8                             | 90.2   | 113,692                     | .5                               | 97,303  | -4.3                             | 85.6   |
| 1988 .....                   | 118,238        | -3.4                             | 106,950                                     | 9.3                              | 90.4   | 113,136                     | 8.1                              | 101,686   | .6                               | 89.9   |
| <b>All Utilities in NPCC</b> |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996 .....                   | 185,521        | 1.4                              | 261,814                                     | 24.8                             | 141.1  | 241,366                     | 1.2                              | 186,348   | 39.7                             | 77.2   |
| 1995 .....                   | 183,021        | -3.4                             | 209,724                                     | 5.7                              | 114.6  | 238,492                     | -1                               | 133,367   | 2.7                              | 55.9   |
| 1994 .....                   | 189,546        | -2.9                             | 198,467                                     | 9.2                              | 104.7  | 238,679                     | 1.1                              | 129,903   | 6.9                              | 54.4   |
| 1993 .....                   | 195,140        | -3.9                             | 181,770                                     | 8.9                              | 93.1   | 236,012                     | 1.1                              | 121,556   | 2.9                              | 51.5   |
| 1992 .....                   | 202,978        | -6.9                             | 166,884                                     | 8.2                              | 82.2   | 233,395                     | -1                               | 118,108   | -1.7                             | 50.6   |
| 1991 .....                   | 218,053        | -4.3                             | 154,206                                     | 8.8                              | 70.7   | 233,643                     | -4                               | 120,113   | 1.6                              | 51.4   |
| 1990 .....                   | 227,866        | -2.5                             | 141,784                                     | .5                               | 62.2   | 234,542                     | .4                               | 118,194   | -3.3                             | 50.4   |
| 1989 .....                   | 233,624        | 4.3                              | 141,102                                     | .6                               | 60.4   | 233,573                     | 2.0                              | 122,287   | 4.8                              | 52.4   |
| 1988 .....                   | 223,996        | 5.6                              | 140,299                                     | .9                               | 62.6   | 228,883                     | 5.5                              | 116,647   | 1.3                              | 51.0   |
| <b>All Utilities in SERC</b> |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996 .....                   | 740,784        | 5.2                              | 430,051                                     | 8.6                              | 58.0   | 715,118                     | 4.2                              | 406,952   | 11.5                             | 56.9   |
| 1995 .....                   | 703,899        | 3.8                              | 396,027                                     | 6.3                              | 56.3   | 686,458                     | 4.6                              | 364,803   | 6.2                              | 53.1   |
| 1994 .....                   | 678,423        | 1.6                              | 372,527                                     | .3                               | 54.9   | 656,478                     | 2.9                              | 343,568   | -1.5                             | 52.3   |
| 1993 .....                   | 667,464        | 4.6                              | 371,528                                     | 5.7                              | 55.7   | 638,223                     | 4.8                              | 348,749   | 5.1                              | 54.6   |
| 1992 .....                   | 637,803        | 1.1                              | 351,478                                     | -5                               | 55.1   | 609,139                     | 1.2                              | 331,739   | -1.5                             | 54.5   |
| 1991 .....                   | 630,562        | 3.1                              | 353,214                                     | -9                               | 56.0   | 601,988                     | 2.3                              | 336,719   | -7                               | 55.9   |
| 1990 .....                   | 611,708        | -1                               | 356,296                                     | -1.3                             | 58.3   | 588,223                     | 2.9                              | 339,058   | -4.0                             | 57.6   |
| 1989 .....                   | 612,643        | 7.2                              | 360,938                                     | 7.4                              | 58.9   | 571,569                     | 4.8                              | 353,363   | 11.0                             | 61.8   |
| 1988 .....                   | 571,541        | 2.1                              | 336,170                                     | 2.3                              | 58.8   | 545,250                     | 4.3                              | 318,412   | -2.1                             | 58.4   |
| <b>All Utilities in SPP</b>  |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996 .....                   | 276,205        | 0.6                              | 178,913                                     | 17.2                             | 64.8   | 277,115                     | 3.8                              | 155,370   | 12.8                             | 56.1   |
| 1995 .....                   | 274,475        | 5.6                              | 152,607                                     | 2.7                              | 55.6   | 266,912                     | 3.8                              | 137,801   | 5.6                              | 51.6   |
| 1994 .....                   | 260,025        | 1.2                              | 148,574                                     | 5.1                              | 57.1   | 257,183                     | 2.9                              | 130,540   | 3.3                              | 50.8   |
| 1993 .....                   | 256,901        | 5.9                              | 141,319                                     | 9.9                              | 55.0   | 249,891                     | 6.2                              | 126,397   | 9.1                              | 50.6   |
| 1992 .....                   | 242,514        | -8                               | 128,586                                     | .5                               | 53.0   | 235,320                     | -1.3                             | 115,901   | 1.2                              | 49.3   |
| 1991 .....                   | 244,415        | -1                               | 127,898                                     | 6.1                              | 52.3   | 238,328                     | .9                               | 114,484   | 4.9                              | 48.0   |
| 1990 .....                   | 244,762        | 2.4                              | 120,583                                     | .0                               | 49.3   | 236,253                     | 5.9                              | 109,113   | -4.9                             | 46.2   |
| 1989 .....                   | 239,032        | 2.4                              | 120,646                                     | 9.4                              | 50.5   | 223,134                     | 2.2                              | 114,760   | 8.5                              | 51.4   |
| 1988 .....                   | 233,396        | .7                               | 110,226                                     | 4.0                              | 47.2   | 218,281                     | 3.1                              | 105,777   | -1.3                             | 48.5   |
| <b>All Utilities in WSCC</b> |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996 .....                   | 574,878        | 5.3                              | 417,263                                     | 19.2                             | 72.6   | 547,156                     | 3.7                              | 384,989   | 21.0                             | 70.4   |
| 1995 .....                   | 546,208        | 1.6                              | 349,960                                     | 1.7                              | 64.1   | 527,641                     | .8                               | 318,030   | 5.2                              | 60.3   |
| 1994 .....                   | 537,399        | 1.9                              | 344,109                                     | -9                               | 64.0   | 523,696                     | 1.8                              | 302,363   | -1.2                             | 57.7   |
| 1993 .....                   | 527,428        | .9                               | 347,224                                     | -1.1                             | 65.8   | 514,212                     | .6                               | 306,168   | -1                               | 59.5   |
| 1992 .....                   | 522,863        | -1                               | 351,255                                     | -2.1                             | 67.2   | 511,352                     | 1.1                              | 306,540   | -5.1                             | 59.9   |
| 1991 .....                   | 523,468        | -2.2                             | 358,894                                     | -1.7                             | 68.6   | 505,936                     | .4                               | 322,943   | -3.9                             | 63.8   |
| 1990 .....                   | 535,242        | .9                               | 364,977                                     | 13.7                             | 68.2   | 503,744                     | 3.5                              | 336,091   | 10.0                             | 66.7   |
| 1989 .....                   | 530,205        | 3.0                              | 321,048                                     | 12.4                             | 60.5   | 486,675                     | 3.0                              | 305,522   | 12.9                             | 62.8   |
| 1988 .....                   | 514,622        | 5.8                              | 285,590                                     | -2                               | 55.5   | 472,386                     | 5.6                              | 270,525   | .2                               | 57.3   |

See notes and footnotes at end of table.

**Table 4. Electric Trade in the United States by NERC Region and Hawaii, 1988 Through 1996**

(Million Kilowatthours) (Continued)

| Year              | Net Generation | Percent Change from Year Earlier | Purchases & Exchanges Received <sup>1</sup> | Percent Change from Year Earlier | Purchases & Exch. Rec. as Percent of Net Generation <sup>1</sup> | Sales to Ultimate Consumers | Percent Change from Year Earlier | Sales for Resale & Exchanges Delivered <sup>2</sup> | Percent Change from Year Earlier | Sales for Resale & Exch. Del. as Percent of Sales to Ultimate Consumers <sup>2</sup> |
|-------------------|----------------|----------------------------------|---|----------------------------------|--|-----------------------------|----------------------------------|---|----------------------------------|--|
| <b>U.S. Total</b> |                |                                  |   |                                  |  |                             |                                  |   |                                  |  |
| 1996.....         | 3,099,989      | 3.3                              | 2,068,621                                   | 22.6                             | 66.7   | 3,101,227                   | 2.9                              | 1,813,648   | 26.3                             | 58.5   |
| 1995.....         | 3,002,304      | 2.6                              | 1,687,659                                   | 6.1                              | 56.2   | 3,013,287                   | 2.7                              | 1,435,985   | 6.9                              | 47.7   |
| 1994.....         | 2,924,961      | .9                               | 1,590,342                                   | 1.3                              | 54.4   | 2,934,563                   | 2.5                              | 1,343,761   | -1.6                             | 45.8   |
| 1993.....         | 2,897,815      | 3.3                              | 1,570,780                                   | 3.6                              | 54.2   | 2,861,464                   | 3.5                              | 1,366,133   | 2.9                              | 47.7   |
| 1992.....         | 2,805,092      | -1.1                             | 1,516,264                                   | .5                               | 54.0   | 2,763,324                   | .0                               | 1,327,111   | -2.2                             | 48.0   |
| 1991.....         | 2,835,377      | .5                               | 1,508,408                                   | -2.1                             | 53.2   | 2,762,003                   | 1.8                              | 1,356,785   | -4.9                             | 49.1   |
| 1990.....         | 2,821,493      | .4                               | 1,541,310                                   | 4.8                              | 54.6   | 2,712,555                   | 2.5                              | 1,427,118   | 2.4                              | 52.6   |
| 1989.....         | 2,811,398      | 2.9                              | 1,469,952                                   | 7.1                              | 52.3   | 2,646,809                   | 2.7                              | 1,394,071   | 7.6                              | 52.7   |
| 1988.....         | 2,730,774      | 3.8                              | 1,372,433                                   | 4.0                              | 50.3   | 2,578,062                   | 4.9                              | 1,295,403   | 2.0                              | 50.3   |

<sup>1</sup> Includes all transactions received from outside and within the region by all utilities operating within the region.

<sup>2</sup> Includes all transactions delivered out of and within the region by all utilities operating within the region.

Notes:•NERC is the North American Electric Reliability Council. See glossary for a list of regions. •Table includes data from Power Marketers. •Percentages may not total 100 because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

**Table 5. Intra- and Interregional Purchases and Sales for Resale by Selected Ownership Classes, 1990, 1992, 1994, and 1996**  
(Million Kilowatthours)

| Type of Transaction /Ownership Class | Intraregional        |         |         |         |                                    | Interregional |        |        |        |                                    |
|--------------------------------------|----------------------|---------|---------|---------|------------------------------------|---------------|--------|--------|--------|------------------------------------|
|                                      | 1996                 | 1994    | 1992    | 1990    | Total Percent Difference 1990-1996 | 1996          | 1994   | 1992   | 1990   | Total Percent Difference 1990-1996 |
| <b>Purchases</b>                     |                      |         |         |         |                                    |               |        |        |        |                                    |
| Investor-Owned.....                  | 757,356 <sup>R</sup> | 636,893 | 598,671 | 521,524 | 45.2                               | 132,238       | 75,597 | 59,927 | 41,827 | 216.2                              |
| Federal <sup>1</sup> .....           | 13,747               | 17,827  | 17,948  | 8,476   | 62.2                               | 452           | 1,576  | 1,705  | 2,637  | -82.9                              |
| Cooperatives.....                    | 308,528              | 289,444 | 266,864 | 257,467 | 19.8                               | 24,003        | 16,766 | 14,234 | 15,905 | 50.9                               |
| <b>Sales for Resale<sup>2</sup></b>  |                      |         |         |         |                                    |               |        |        |        |                                    |
| Investor-Owned.....                  | 547,442              | 467,479 | 452,442 | 373,897 | 46.4                               | 109,583       | 62,206 | 61,928 | 70,284 | 55.9                               |
| Federal <sup>1</sup> .....           | 176,980              | 184,991 | 174,156 | 185,801 | -4.7                               | 16,456        | 13,255 | 12,973 | 11,764 | 39.9                               |

<sup>1</sup> Federal authorities use different accounting methods for reporting energy received from Federal generating assets; the energy may be reported as generation or purchases. Federal data are presented as an aggregated fiscal year which ends on September 30.

<sup>2</sup> Detailed information for sales for resale by cooperative utilities is collected but not processed by the Rural Utilities Service, for prior years.

<sup>R</sup> Revised.

Notes: •Excludes accounting adjustments to data which allows the actual linkage of dollars and quantity to the year in trade.

Sources: Energy Information Administration, Survey Management Division, calculated from data reported on Federal Energy Regulatory Commission (FERC) Form 1, "Annual Report of Major Electric Utilities, Licensees and Others," FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees"; Form EIA-412, "Annual Report of Public Electric Utilities"; Rural Utilities System (RUS), formerly Rural Electrification Administration (REA). For years 1990 and 1992, REA Form 7, "Financial and Statistical Report," REA Forms 12a through 12i, "Electric Power Supply Borrowers," and REA Forms 12c through 12g, "Electric Distribution Borrowers with Generating Facilities." For years 1994 and 1996, substitute RUS for REA in form name."

**Table 6. Firm and Nonfirm Purchases and Sales for Resale by Investor-Owned Utilities, by NERC Region, 1990, 1992, 1994, and 1996**  
(Million Kilowatthours)

| NERC Region   | Firm    |         |         |         |                          | Nonfirm |         |         |         |                          |
|---|---------|---------|---------|---------|--------------------------|---------|---------|---------|---------|--------------------------|
|   | 1996    | 1994    | 1992    | 1990    | Percent Change 1990-1996 | 1996    | 1994    | 1992    | 1990    | Percent Change 1990-1996 |
| <b>Purchases by Investor-Owned Utilities</b>        |         |         |         |         |                          |         |         |         |         |                          |
| ECAR.....   | 54,450  | 58,274  | 46,741  | 47,191  | 15.4                     | 57,124  | 30,378  | 39,531  | 22,196  | 157.4                    |
| ERCOT.....  | 14,115  | 17,340  | 22,716  | 22,285  | -36.7                    | 19,715  | 9,574   | 5,141   | 3,399   | 480.0                    |
| MAAC.....   | 21,927  | 20,802  | 28,244  | 25,925  | -15.4                    | 86,235  | 47,385  | 38,994  | 14,340  | 501.3                    |
| MAIN.....   | 17,080  | 22,716  | 11,547  | 12,463  | 37.0                     | 20,704  | 13,120  | 17,002  | 9,307   | 122.5                    |
| MAPP.....   | 16,833  | 15,373  | 13,652  | 6,193   | 171.8                    | 14,180  | 10,103  | 12,701  | 13,744  | 3.2                      |
| NPCC.....   | 90,553  | 73,064  | 74,925  | 65,349  | 38.6                     | 95,696  | 95,632  | 66,934  | 38,682  | 147.4                    |
| SERC.....   | 63,465  | 58,077  | 57,671  | 59,834  | 6.1                      | 32,143  | 27,079  | 29,019  | 28,642  | 12.2                     |
| SPP.....  | 11,328  | 9,836   | 3,941   | 6,886   | 64.5                     | 53,873  | 40,683  | 44,138  | 30,227  | 78.2                     |
| WSCC.....   | 80,111  | 86,251  | 83,037  | 78,397  | 2.2                      | 116,896 | 52,536  | 46,206  | 59,163  | 97.6                     |
| Contiguous U.S. Total.....                          | 369,860 | 361,733 | 342,472 | 324,524 | 14.0                     | 496,567 | 326,490 | 299,666 | 219,700 | 126.0                    |
| <b>Sales for Resale by Investor-Owned Utilities</b> |         |         |         |         |                          |         |         |         |         |                          |
| ECAR.....   | 80,710  | 77,159  | 78,719  | 75,359  | 7.1                      | 65,332  | 37,339  | 53,251  | 42,054  | 55.4                     |
| ERCOT.....  | 8,028   | 5,901   | 6,599   | 8,232   | -2.5                     | 2,789   | 2,916   | 1,392   | 1,405   | 98.6                     |
| MAAC.....   | 29,819  | 9,994   | 13,978  | 6,372   | 367.9                    | 32,028  | 32,141  | 28,411  | 9,186   | 248.7                    |
| MAIN.....   | 27,511  | 22,343  | 16,375  | 22,325  | 23.2                     | 23,643  | 19,426  | 10,170  | 6,884   | 243.5                    |
| MAPP.....   | 9,563   | 7,909   | 9,828   | 6,789   | 40.9                     | 9,262   | 8,205   | 8,728   | 11,175  | -17.1                    |
| NPCC.....   | 50,322  | 52,985  | 53,816  | 47,578  | 5.8                      | 51,615  | 43,311  | 37,964  | 19,337  | 166.9                    |
| SERC.....   | 42,640  | 35,234  | 42,960  | 44,051  | -3.2                     | 53,550  | 50,838  | 46,339  | 49,429  | 8.3                      |
| SPP.....  | 25,584  | 18,665  | 17,139  | 15,586  | 64.1                     | 32,295  | 31,148  | 27,944  | 19,960  | 61.8                     |
| WSCC.....   | 30,196  | 27,894  | 29,962  | 27,516  | 9.7                      | 57,193  | 29,955  | 23,210  | 23,380  | 144.6                    |
| Contiguous U.S. Total.....                          | 304,372 | 258,084 | 269,376 | 253,809 | 19.9                     | 327,707 | 255,279 | 237,409 | 182,809 | 79.3                     |

Notes: •Miscellaneous transactions for the Purchased Power and Sales for Resale categories have been excluded. See Chapter 2 for a discussion of miscellaneous transactions. •Includes accounting adjustments to data (no dollars associated with megawatthour adjustments). Table 8 shows actual trade booked in 1996, but Table 6 shows adjustments (to include coming from prior year obligations) that affect the overall accounts of the utility. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See Glossary for a list of regions.

Source: Federal Energy Regulatory Commission (FERC) Form 1, "Annual Report of Major Electric Utilities, Licensees and Others," and FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

## Tables

National and regional aggregates are presented at the end of this chapter for data covering:

- Purchases, sales for resale, and exchanges by investor-owned utilities with all ownership classes (Tables 8 through 10)
- Exchanges by noninvestor-owned utilities (Table 11)
- Wheeling transactions of investor-owned utilities (Tables 12 and 13)
- Regional purchases by cooperative borrowers (Table 14)
- Trading within and between regions by investor-owned utilities (Tables 15 and 16)
- Transactions of investor-owned utilities in Alaska and Hawaii (Table 17)
- U.S. electricity trade with Canada and Mexico (Table 18).

## Sources of Data, 1996

Summary information for the United States are provided in Tables 1 through 4 and are obtained from the Form EIA-861 "Annual Electric Utility Report," which is a mandatory report filed by all U.S. electric utilities. The survey represents the collection of data from the complete universe of electric utilities. All other electric utility surveys cited in this publication represent subsets from the Form EIA-861 universe. Tables 5 through 36 include detailed information developed from direct filings of different surveys by 212 of the 243 investor-owned electric utilities; 504 of the 2,020 State and municipal electric utilities; 811 of the 932 cooperative electric utilities, and 8 of the 10 Federal utilities.<sup>12</sup> The detailed data represent subsets of the universe data provided in Tables 1 through 4. (The requirements for filing are discussed below.) Of the total number of electric utilities identified, but not required to file a detailed data collection form with a Federal agency, most have little generating capability and usually purchase part or all of their electrical energy from one or more of the electric

<sup>12</sup> The two Federal utilities that do not file the Form EIA-412 do not sell wholesale power. Electricity produced by these utilities is marketed by one or more of the Federal power marketing administrations.

utilities who did file. However, some do buy from cogenerators, cooperatives, or other utilities not required to file. The summary quantity of purchases made by these utilities are included in this publication (Tables 22, 31, and 35). These utilities were identified by matching the names of filing utilities and all the utilities listed on these filings with the universe frame of Form EIA-861, "Annual Electric Utility Report." Chapters 2 through 4 provide detailed data on individual electric utilities developed from the direct filings. However, if the direct filing indicates no wholesale trade transactions, then those electric utilities were not shown in the respective tables.

Some data for this publication come from sources outside of EIA. These include: (1) the Federal Energy Regulatory Commission (FERC), (2) the Rural Utilities Service (RUS) in the Department of Agriculture, and (3) the Office of Fossil Energy (FE) in the Department of Energy (see Table ES2). These agencies manage all aspects of their respective surveys and data base maintenance including quality control, frame maintenance, formatting of survey information, survey forms development, handling of nonresponse, and data imputation.

Chapter 1 gives an overview of bulk power trade and provides national and regional electric trade data by all ownership classes. These data come from several forms, as no form was specifically designed to collect electricity trade information from all ownership classes. International trade data are from Form FE-781R, "Annual Report of International Electrical Export/Import Data," (Table 18).

Chapter 2 presents data on bulk power transactions of "Major" and "Minor" investor-owned utilities. Major investor-owned electric utilities are defined as those private utilities that have had, in the past 3 consecutive calendar years, sales or transmission services that exceeded one of the following: 1 billion kilowatthours of total annual sales, 100,000 kilowatthours of annual sales for resale, 500,000 kilowatthours of annual gross interchange-out or 500,000 kilowatthours of transmission for others (wheeling). The criteria for classification as a minor utility are: (1) total annual sales of 10 million kilowatthours or more in the previous calendar year, and (2) not being classified as a major utility.

The investor-owned utilities shown in this publication report on FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others" and FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

The FERC forms are primarily financial reporting forms. The wholesale data are collected on 4 of the approximately 75 survey schedules of the FERC Form 1. The wholesale electricity trade schedules are sales for resale, purchased power, summary of interchange, and transmission of electricity for or by others. These electricity transactions are shown by utility class of ownership in Tables 19 through 24.

The investor-owned electric utilities that fall below the filing criteria for the FERC Forms 1 and 1-F are not required to file. Appendix Table B1 lists the major and minor utilities that file FERC Forms 1 and 1-F.

Data in Chapter 3 cover wholesale electricity trade for the 504 public utilities that report wholesale transactions on Form EIA-412, "Annual Report of Public Electric Utilities," which is used to collect data on purchased power and sales for resale transactions. The public utilities report information by fiscal year; therefore, consistent totals cannot be provided for these classes of ownership. Public electric utilities are required to submit Form EIA-412 when their generation, transmission, or distribution of electricity results in 120 million kilowatthours of sales to ultimate consumers and/or 120 million kilowatthours of sales for resale. Data on exchanges and wheeling in this chapter are reported on Form EIA-861, "Annual Electric Utility Report."

Chapter 4 presents data submitted to the Rural Utilities Service (RUS) of the U.S. Department of Agriculture by cooperative borrowers. The RUS collects information from all utilities that have "borrowed" under the RUS loan guarantee programs and uses the information to verify and administer its loan programs. Appendix Table B5 lists cooperative borrowers. Data covering electricity trade for cooperative borrowers are reported for a calendar-year basis on several closely related RUS forms: RUS Form 7, "Financial and Statistical Report," RUS Forms 12a through 12i, "Electric Power Supply Borrowers," and RUS Forms 12c through 12g, "Electric Distribution Borrowers with Generating Facilities." These forms are used to collect data on purchased power. Sales for resale transactions are not available in a machine-readable format from the RUS.

## Compilation of Data

The Federal Government recognizes that wholesale trade data needs to be consolidated and automated. The EIA examined the data and initiated a process with the FERC to correct deficiencies. Responsibility for correcting errors and making contact with the FERC Form 1 respondents rests with the FERC. Principal among the problems with existing wholesale trade data are: (1) inconsistencies in reporting mutual transactions by buyers and sellers, (2) lack of uniformity and standardization in reporting, (3) lack of uniformity in reporting requirements among various forms including reporting periods, and (4) multiple and sometimes overlapping reporting and aggregation of individual transactions.

Many of these errors are identified by automated intraform range, arithmetic and logic checks, and interform consistency edits (for example, cross-checking between submissions of the respondents).



**Table 7. Wheeling Trade in the United States by NERC Region, 1988 Through 1996**  
(Million Kilowatthours)

| Wheeling                              | 1996    | 1995    | 1994    | 1993    | 1992    | 1991    | 1990    | 1989    | 1988    |
|---------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>All Utilities in ECAR</b>          |         |         |         |         |         |         |         |         |         |
| Wheeling Received <sup>1</sup> .....  | 59,827  | 33,128  | 30,861  | 31,191  | 31,803  | 30,293  | 32,841  | 21,098  | 15,121  |
| Wheeling Delivered <sup>2</sup> ..... | 59,522  | 32,893  | 30,630  | 30,994  | 31,618  | 30,161  | 32,753  | 20,994  | 15,036  |
| Wheeling Net.....                     | 305     | 236     | 231     | 197     | 186     | 132     | 88      | 104     | 85      |
| <b>All Utilities in ERCOT</b>         |         |         |         |         |         |         |         |         |         |
| Wheeling Received <sup>1</sup> .....  | 20,027  | 34,237  | 24,069  | 26,716  | 24,077  | 20,934  | 16,481  | 9,414   | 7,861   |
| Wheeling Delivered <sup>2</sup> ..... | 20,009  | 34,239  | 24,088  | 26,686  | 24,090  | 20,937  | 16,496  | 9,297   | 7,913   |
| Wheeling Net.....                     | 18      | -1      | -19     | 31      | -13     | -2      | -14     | 117     | -53     |
| <b>All Utilities in MAAC</b>          |         |         |         |         |         |         |         |         |         |
| Wheeling Received <sup>1</sup> .....  | 20,272  | 14,915  | 11,789  | 13,132  | 9,868   | 5,842   | 5,774   | 8,385   | 7,482   |
| Wheeling Delivered <sup>2</sup> ..... | 20,177  | 14,548  | 11,720  | 13,030  | 9,779   | 5,842   | 5,774   | 8,360   | 7,465   |
| Wheeling Net.....                     | 95      | 367     | 69      | 103     | 88      | —       | —       | 24      | 16      |
| <b>All Utilities in MAIN</b>          |         |         |         |         |         |         |         |         |         |
| Wheeling Received <sup>1</sup> .....  | 7,695   | 6,270   | 4,877   | 5,018   | 3,489   | 3,819   | 1,451   | 1,215   | 1,915   |
| Wheeling Delivered <sup>2</sup> ..... | 7,550   | 6,175   | 4,810   | 4,951   | 3,404   | 3,739   | 1,414   | 1,205   | 1,906   |
| Wheeling Net.....                     | 145     | 96      | 67      | 67      | 85      | 80      | 37      | 10      | 10      |
| <b>All Utilities in MAPP</b>          |         |         |         |         |         |         |         |         |         |
| Wheeling Received <sup>1</sup> .....  | 17,744  | 17,816  | 19,038  | 16,781  | 11,661  | 9,484   | 8,477   | 9,208   | 7,804   |
| Wheeling Delivered <sup>2</sup> ..... | 16,457  | 16,596  | 18,417  | 16,130  | 10,847  | 7,935   | 7,656   | 8,197   | 6,705   |
| Wheeling Net.....                     | 1,287   | 1,220   | 620     | 651     | 814     | 1,549   | 821     | 1,012   | 1,098   |
| <b>All Utilities in NPCC</b>          |         |         |         |         |         |         |         |         |         |
| Wheeling Received <sup>1</sup> .....  | 63,703  | 59,890  | 68,883  | 67,815  | 60,687  | 57,173  | 48,613  | 42,897  | 38,365  |
| Wheeling Delivered <sup>2</sup> ..... | 63,400  | 59,626  | 68,587  | 67,553  | 60,495  | 56,925  | 48,399  | 42,351  | 38,089  |
| Wheeling Net.....                     | 303     | 264     | 296     | 262     | 191     | 248     | 214     | 546     | 276     |
| <b>All Utilities in SERC</b>          |         |         |         |         |         |         |         |         |         |
| Wheeling Received <sup>1</sup> .....  | 37,264  | 30,769  | 25,134  | 27,132  | 27,211  | 28,457  | 29,291  | 22,726  | 12,354  |
| Wheeling Delivered <sup>2</sup> ..... | 35,425  | 28,880  | 23,514  | 25,324  | 25,408  | 27,447  | 28,174  | 21,885  | 11,743  |
| Wheeling Net.....                     | 1,839   | 1,889   | 1,620   | 1,808   | 1,803   | 1,010   | 1,117   | 841     | 611     |
| <b>All Utilities in SPP</b>           |         |         |         |         |         |         |         |         |         |
| Wheeling Received <sup>1</sup> .....  | 25,982  | 23,502  | 23,545  | 25,528  | 21,749  | 22,150  | 27,091  | 19,591  | 20,089  |
| Wheeling Delivered <sup>2</sup> ..... | 25,870  | 23,406  | 23,448  | 25,419  | 21,639  | 22,078  | 26,985  | 19,924  | 19,956  |
| Wheeling Net.....                     | 112     | 96      | 97      | 109     | 110     | 72      | 105     | -333    | 133     |
| <b>All Utilities in WSCC</b>          |         |         |         |         |         |         |         |         |         |
| Wheeling Received <sup>1</sup> .....  | 164,449 | 134,610 | 127,915 | 137,931 | 127,514 | 144,466 | 152,097 | 164,824 | 157,755 |
| Wheeling Delivered <sup>2</sup> ..... | 161,230 | 131,758 | 126,672 | 136,489 | 125,023 | 142,592 | 148,388 | 163,623 | 157,682 |
| Wheeling Net.....                     | 3,219   | 2,852   | 1,243   | 1,441   | 2,492   | 1,874   | 3,708   | 1,200   | 74      |
| <b>Contiguous U.S. Total</b>          |         |         |         |         |         |         |         |         |         |
| Wheeling Received <sup>1</sup> .....  | 417,784 | 355,916 | 336,805 | 351,701 | 318,538 | 323,133 | 322,667 | 299,822 | 269,170 |
| Wheeling Delivered <sup>2</sup> ..... | 410,460 | 348,900 | 332,580 | 347,032 | 312,782 | 318,170 | 316,591 | 296,297 | 266,909 |
| Wheeling Net.....                     | 7,324   | 7,016   | 4,225   | 4,668   | 5,756   | 4,963   | 6,077   | 3,525   | 2,262   |

<sup>1</sup> Includes all transactions received from outside and within the region by all utilities operating within the region.

<sup>2</sup> Includes all transactions delivered out of and within the region by all utilities operating within the region.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •Aggregate 1992 bulk power data supplied by investor-owned electric utilities were matched to original filings made to the FERC. The FERC has again required investor-owned electric utilities to refile 1992 bulk power data. These revised data are shown in Tables 5-24 and represent the reclassification of data among purchased power, exchanges, and sales for resale accounts. The difference between the data series are the result of the reclassifications and adjustments made to the data. •Table includes data from Power Marketers. •NERC is the North American Electric Reliability Council. See glossary for a list of regions.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

The Technical Notes provide more information on data linkages, revisions, and correction procedures used in editing data on wholesale electricity trade. In

addition, the corrections to these problems also serve as the foundation for future analytical work to improve reporting on EIA forms.

## Limitations of Data Coverage, Reliability, and Quality

Electricity transactions have a wide range of terms and conditions designed to accommodate prevailing circumstances. Because of the lack of standardization in contract terminology, reporting of each transaction is not consistent across the industry. The lack of uniformity, combined with the complexity of the transactions, affects the accuracy of the data. This is further complicated by the accounting of simultaneous energy transactions, the receipt and delivery of energy caused by inadvertent flow, and the losses associated with transmission.

In developing the data base for ELECTRA, EIA has made a major effort to detect and correct respondent reporting errors, data processing issues, and problems with data interpretation. However, some error correction issues cannot be addressed by EIA since they involve survey design, operations decisions, and quality control procedures beyond EIA's control. A discussion of the error detection methods and the correction process used by EIA is described in the Technical Notes to this publication. The data within ELECTRA come from survey filings that are available to the public from the respective agency that is responsible for the survey form.

The major sources of incompatibility between data collection forms include: (1) different reporting years, (2) different reporting requirements, (3) different reporting of mutual transactions by purchasers and sellers, (4) lack of uniformity and standardization in the definitions of terms used in the industry, and (5) multiple reporting of individual transactions. The single greatest source of incompatibility is the different "reporting year" requirements of Form EIA-412 compared with the other forms. The annual data reported on Form EIA-412 by a public utility are based on that utility's fiscal year. The annual data reported on Form EIA-861, FERC Form 1, RUS Form 7, and RUS Form 12 are based on the calendar year.

The second largest source of incompatibility is the difference in reporting requirements among the forms. The four types of electric trade transactions and the forms used to collect them are as follows:

- Purchases--FERC Forms 1 and 1-F, Form EIA-412, RUS Form 7, RUS Form 12
- Sales for Resale--FERC Forms 1 and 1-F, Form EIA-412
- Exchanges--FERC Forms 1 and 1-F
- Wheeling--FERC Forms 1 and 1-F

Form EIA-861 is also used to gather information on all four types of transactions; the data, however, are submitted on energy flows rather than financial performance. EIA-861 data are at an aggregate level and do not identify buyers and sellers. These differences make it impossible to disaggregate the types of electric trade transactions across ownership classes for all

forms. This publication provides significantly more complete information on the investor-owned utilities than other ownership classes because of the greater detail collected on FERC Form 1.

Data received from FERC, RUS, and FE can be inconsistent with similar data collected by EIA. Some data elements from the survey forms used are not consistent within the same respondent filing (aggregations of detailed information within individual schedules accounts do not equal summary schedule accounts). Therefore, the detailed transaction information was used for the basis of aggregation and comparison. In other cases, megawatthours or revenue data may not sum to the totals reported to EIA. EIA attempts to resolve such inconsistencies, which often are related to how accounting adjustments (both positive and negative for dollars and megawatthours) are treated or accepted under the regulatory oversight. When cross form consistency cannot be achieved, the data used in ELECTRA is as "reported."

The data on wholesale electricity trade are collected on Federal survey data forms that are accounting-system based. These forms were designed for regulatory purposes to meet administrative and rate case needs of individual utilities as opposed to overall aggregate industry statistical and analytical purposes.

Data for the Commonwealth of Puerto Rico and the U.S. Trust Territories are excluded in this publication. Geographical location and electrical system isolation limit the usefulness of any wholesale trade data from these areas.

### **Average Unit Cost and Unit Revenue**

This publication presents annual summations of electricity transactions (energy) with the corresponding revenue and cost information. Dividing cost or revenue by the transaction quantity gives the average cost or average revenue per unit of energy. However, it does not necessarily indicate the price specified in contracts.

Wholesale sales are transaction-specific and lose relevance when aggregated to classes of ownership and geographic regions. The price that any one utility charges another for wholesale energy comprises numerous system-specific factors. For example, the price of purchased power can consist of demand charges, energy charges, and facility charges. A demand charge is a fixed charge determined according to the maximum capacity demanded by the purchasing utility during a specified period of time. Demand charges, being fixed, are unaffected by the number of kilowatthours of energy purchased; therefore, the average charge per kilowatthour decreases as the volume of energy sales increases.

In addition to demand charges, wholesale electricity transactions are frequently subject to facility charges that include transmission, generation, and other system operating charges. These charges typically vary by ownership class, system characteristics, and region.

Furthermore, demand charges and energy charges are affected by time of delivery, quantity of energy, and reliability of supply. Typically, energy delivered during peak periods costs more than energy delivered during off-peak periods. Firm power, which can have a level of reliability similar to that given to a supplier's customers, costs more than economy energy. Economy energy is interruptible on short notice and replaces the more expensive firm power energy that is available to the purchaser.

For electric trade transactions, the average revenue or cost per unit of energy, calculated by dividing the revenue or cost by the associated energy, is not a substitute for total price. Electric trade transactions are comprised of various energy transactions of different value. Differences in average revenue or cost per unit of energy may represent a difference in the operating conditions rather than a difference in price structure. The quantity and value numbers presented represent the summation of all trade in that category for a year. Individual prices associated with a particular trade, the impact of seasonal and peak usage, and contract specific conditions cannot be separated from the aggregate. The reader is cautioned against using unit revenue or cost as a substitute for true price.

### **Account Adjustments**

Utilities must adjust the current year data to reflect not only the corrections in accounting for physical flows but also any regulatory and court decisions. Rate case rebates, meter adjustments, and inadvertent power flow corrections are examples of these changes.

Both negative and positive adjustments are present in the revenue, cost, and quantity of trade numbers. Negative and positive numbers in the interchange tables represent a direction of flow--positive is a receipt and negative is a delivery. In the purchased power and sales for resale tables, data (either positive or negative) represent either the booking of accounting adjustments or reversal in payments and energy flows.

Transmission of power from generating facilities under joint ownership can be reported in several ways. Typically, joint owners operate with interconnected transmission networks under mutually beneficial service agreements. The actual transfer of energy across transmission systems is usually considered a nonmonetary transaction and not a wholesale transaction. When a joint owner lacks an interconnected path to the generating facility, the actual flow of energy is subject to the transmission service of the wheeling third party, accounted for as a monetary transaction, and reported as "Transmission For Others."

In some of the tables, data categorized as "Other" include power pool data, international trade transactions, and any nonutility generated electricity purchased. This information is often reported in a manner that prevents the identification of the buyer and/or seller.

## **Appendices**

Appendix A identifies the regulatory guidance provided by FERC through its Uniform System of Accounts and selected instructions provided on FERC Form 1.

Appendix B contains the location, NERC region, and data source of each utility for the 1996 filings used in this report. The information is presented by the utility forms: (1) FERC Form 1 and 1-F (Investor-Owned); (2) Form EIA-412 (Federal, State and Other Government Utilities, and Municipalities); (3) RUS Form 7 and RUS Form 12 (Cooperatives); (4) Form EIA-861 (Wheeling and Exchanges for Noninvestor-Owned Utilities); and (5) Energy Marketing (brokering-where ownership of power is transferred) Groups under FERC jurisdictional authority.

Appendix C contains a description of the fundamentals of electric power transmission, the control and operation of electric systems, and an overview of integrating NUGs into the power grid.

Technical Notes (Appendix D) describe the linkages and revisions made to the various data collection systems used in preparing this publication. The Notes also explain data quality and correction procedures used. Copies of the collected data are available to the public. See "Obtaining Copies of the Data" in the Notes for further information.

## **Glossary**

A glossary of terms has been included to assist non-technical as well as technical users in understanding the statistical data in this publication.

**Table 8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1996**

| Sellers by<br>Ownership Class            | Demand<br>Charge<br>Only <sup>1</sup><br>(dollars) | Firm                        |                             |                            |                            | Purchases<br>(thousand kWh) |
|--|--|-----------------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|
|  |  | Demand<br>Cost<br>(dollars) | Energy<br>Cost<br>(dollars) | Other<br>Cost<br>(dollars) | Total<br>Cost<br>(dollars) |                             |
| <b>Investor-Owned Utilities in ECAR</b>  |  |                             |                             |                            |                            |                             |
| Investor-Owned .....                     | 120,893  | 316,677,024                 | 598,361,380                 | -27,460,718                | 887,577,686                | 32,824,870                  |
| Federal .....                            | —  | —                           | —                           | —                          | —                          | —                           |
| State and Other                          |  |                             |                             |                            |                            |                             |
| Government .....                         | 33,214   | —                           | —                           | —                          | —                          | —                           |
| Municipals .....                         | —  | 7,958,234                   | 20,343,719                  | —                          | 28,301,953                 | 1,495,395                   |
| Cooperatives .....                       | —  | 1,805,370                   | 14,692,269                  | —                          | 16,497,639                 | 657,342                     |
| Other <sup>2</sup> .....                 | 4,720  | 546,386,761                 | 399,652,286                 | -789,285                   | 945,249,762                | 19,471,920                  |
| Total .....                              | 158,827  | 872,827,389                 | 1,033,049,654               | -28,250,003                | 1,877,627,040              | 54,449,527                  |
| <b>Investor-Owned Utilities in ERCOT</b> |  |                             |                             |                            |                            |                             |
| Investor-Owned .....                     | 1,084,720  | 73,970,672                  | 56,697,260                  | 1,263,578                  | 131,931,510                | 2,590,549                   |
| Federal .....                            | —  | —                           | —                           | —                          | —                          | —                           |
| State and Other                          |  |                             |                             |                            |                            |                             |
| Government .....                         | —  | 3,153,658                   | 9,124,177                   | 1,088,337                  | 13,366,172                 | 371,740                     |
| Municipals .....                         | —  | —                           | —                           | —                          | —                          | —                           |
| Cooperatives .....                       | —  | —                           | —                           | —                          | —                          | —                           |
| Other <sup>2</sup> .....                 | —  | 275,569,553                 | 278,263,858                 | —                          | 553,833,411                | 11,152,716                  |
| Total .....                              | 1,084,720  | 352,693,883                 | 344,085,295                 | 2,351,915                  | 699,131,093                | 14,115,005                  |
| <b>Investor-Owned Utilities in MAAC</b>  |  |                             |                             |                            |                            |                             |
| Investor-Owned .....                     | 4,261,649  | 269,215,682                 | 411,239,727                 | 676,363                    | 681,131,772                | 13,925,950                  |
| Federal .....                            | —  | —                           | —                           | —                          | —                          | —                           |
| State and Other                          |  |                             |                             |                            |                            |                             |
| Government .....                         | —  | 396,211                     | 1,955,514                   | —                          | 2,351,725                  | 99,399                      |
| Municipals .....                         | —  | 1,786,213                   | 5,766,443                   | —                          | 7,552,656                  | 244,802                     |
| Cooperatives .....                       | —  | 1,941,811                   | 9,652,283                   | —                          | 11,594,094                 | 457,012                     |
| Other <sup>2</sup> .....                 | —  | 45,027,054                  | 179,794,496                 | 330,506                    | 225,152,056                | 7,199,971                   |
| Total .....                              | 4,261,649  | 318,366,971                 | 608,408,463                 | 1,006,869                  | 927,782,303                | 21,927,134                  |
| <b>Investor-Owned Utilities in MAIN</b>  |  |                             |                             |                            |                            |                             |
| Investor-Owned .....                     | 1,312,500  | 103,873,327                 | 265,151,205                 | 8,843                      | 369,033,375                | 14,770,331                  |
| Federal .....                            | —  | 3,237,123                   | 23,099,199                  | —                          | 26,336,322                 | 1,048,494                   |
| State and Other                          |  |                             |                             |                            |                            |                             |
| Government .....                         | —  | —                           | —                           | —                          | —                          | —                           |
| Municipals .....                         | —  | 42,770                      | 1,094,469                   | —                          | 1,137,239                  | 57,350                      |
| Cooperatives .....                       | 2,209,661  | 884,077                     | 2,577,905                   | —                          | 3,461,982                  | 119,450                     |
| Other <sup>2</sup> .....                 | —  | 2,320,595                   | 24,958,538                  | —                          | 27,279,133                 | 1,083,880                   |
| Total .....                              | 3,522,161  | 110,357,892                 | 316,881,316                 | 8,843                      | 427,248,051                | 17,079,505                  |
| <b>Investor-Owned Utilities in MAPP</b>  |  |                             |                             |                            |                            |                             |
| Investor-Owned .....                     | —  | 43,513,233                  | 46,534,444                  | 1,133,465                  | 91,181,142                 | 3,012,638                   |
| Federal .....                            | —  | —                           | —                           | —                          | —                          | —                           |
| State and Other                          |  |                             |                             |                            |                            |                             |
| Government .....                         | —  | 20,162,367                  | 8,978,704                   | —                          | 29,141,071                 | 840,643                     |
| Municipals .....                         | 82,750   | 989,886                     | 605,550                     | —                          | 1,595,436                  | 23,445                      |
| Cooperatives .....                       | 1,995,851  | 82,410,862                  | 50,200,045                  | 645,959                    | 133,256,866                | 4,945,045                   |
| Other <sup>2</sup> .....                 | —  | 77,434,495                  | 116,818,908                 | 408,471                    | 194,661,874                | 8,010,856                   |
| Total .....                              | 2,078,601  | 224,510,843                 | 223,137,651                 | 2,187,895                  | 449,836,389                | 16,832,627                  |

See notes and footnotes at end of table.

**Table 8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1996**  
(Continued)

| Sellers by<br>Ownership Class            | Nonfirm                     |                            |                             | Miscellaneous <sup>2</sup> |                             | Region Total      |                             |
|--|-----------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|-------------------|-----------------------------|
|  | Energy<br>Cost<br>(dollars) | Other<br>Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars)          | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) |
| <b>Investor-Owned Utilities in ECAR</b>  |                             |                            |                             |                            |                             |                   |                             |
| Investor-Owned .....                     | 480,208,960                 | 14,481,159                 | 20,103,844                  | 302,127,013                | 10,086,118                  | 1,684,515,711     | 63,014,832                  |
| Federal .....                            | 9,701,788                   | —                          | 443,138                     | —                          | —                           | 9,701,788         | 443,138                     |
| State and Other                          |                             |                            |                             |                            |                             |                   |                             |
| Government .....                         | 3,912,615                   | —                          | 252,514                     | —                          | —                           | 3,945,829         | 252,514                     |
| Municipals .....                         | 494,242                     | —                          | 48,914                      | —                          | -552                        | 28,796,195        | 1,543,757                   |
| Cooperatives .....                       | 10,421,673                  | —                          | 544,095                     | —                          | —                           | 26,919,312        | 1,201,437                   |
| Other <sup>3</sup> .....                 | 675,649,657                 | -3,717                     | 35,731,439                  | 5,038,604                  | 288,186                     | 1,625,939,026     | 55,491,545                  |
| Total .....                              | 1,180,388,935               | 14,477,442                 | 57,123,944                  | 307,165,617                | 10,373,752                  | 3,379,817,861     | 121,947,223                 |
| <b>Investor-Owned Utilities in ERCOT</b> |                             |                            |                             |                            |                             |                   |                             |
| Investor-Owned .....                     | 13,860,178                  | 147,784                    | 432,711                     | -70,176                    | —                           | 146,954,016       | 3,023,260                   |
| Federal .....                            | 728,007                     | —                          | 24,144                      | —                          | —                           | 728,007           | 24,144                      |
| State and Other                          |                             |                            |                             |                            |                             |                   |                             |
| Government .....                         | 4,222,825                   | 34,035                     | 236,407                     | —                          | —                           | 17,623,032        | 608,147                     |
| Municipals .....                         | 44,718,672                  | 103,885                    | 2,275,931                   | 1,340                      | —                           | 44,823,897        | 2,275,931                   |
| Cooperatives .....                       | 904,013                     | -95,072                    | 53,099                      | —                          | —                           | 808,941           | 53,099                      |
| Other <sup>3</sup> .....                 | 377,486,373                 | 185,771                    | 16,692,443                  | -55                        | 44,617                      | 931,505,500       | 27,889,776                  |
| Total .....                              | 441,920,068                 | 376,403                    | 19,714,735                  | -68,891                    | 44,617                      | 1,142,443,393     | 33,874,357                  |
| <b>Investor-Owned Utilities in MAAC</b>  |                             |                            |                             |                            |                             |                   |                             |
| Investor-Owned .....                     | 519,859,316                 | 149,550,261                | 26,774,258                  | 40,229,959                 | 1,577,873                   | 1,395,032,957     | 42,278,081                  |
| Federal .....                            | 29,337                      | —                          | —                           | —                          | —                           | 29,337            | —                           |
| State and Other                          |                             |                            |                             |                            |                             |                   |                             |
| Government .....                         | 919,382                     | —                          | 55,524                      | —                          | —                           | 3,271,107         | 154,923                     |
| Municipals .....                         | 122,254,720                 | 1,335,030                  | 2,106,740                   | —                          | —                           | 131,142,406       | 2,351,542                   |
| Cooperatives .....                       | 2,514,690                   | —                          | 177,289                     | 5,538,905                  | —                           | 19,647,689        | 634,301                     |
| Other <sup>3</sup> .....                 | 1,827,167,070               | 170,987,202                | 57,121,634                  | 25,997,836                 | -26,208                     | 2,249,304,164     | 64,295,397                  |
| Total .....                              | 2,472,744,515               | 321,872,493                | 86,235,445                  | 71,766,700                 | 1,551,665                   | 3,798,427,660     | 109,714,244                 |
| <b>Investor-Owned Utilities in MAIN</b>  |                             |                            |                             |                            |                             |                   |                             |
| Investor-Owned .....                     | 226,079,598                 | 6,268,910                  | 12,352,307                  | —                          | —                           | 602,694,383       | 27,122,638                  |
| Federal .....                            | 14,160,202                  | —                          | 907,240                     | —                          | —                           | 40,496,524        | 1,955,734                   |
| State and Other                          |                             |                            |                             |                            |                             |                   |                             |
| Government .....                         | 115,587                     | —                          | 6,170                       | —                          | —                           | 115,587           | 6,170                       |
| Municipals .....                         | 1,177,584                   | —                          | 39,980                      | —                          | —                           | 2,314,823         | 97,330                      |
| Cooperatives .....                       | 41,281,789                  | 1,900,000                  | 2,760,532                   | —                          | 23,588                      | 48,853,432        | 2,903,570                   |
| Other <sup>3</sup> .....                 | 98,020,334                  | —                          | 4,637,507                   | -124,226                   | 91,306                      | 125,175,241       | 5,812,693                   |
| Total .....                              | 380,835,094                 | 8,168,910                  | 20,703,736                  | -124,226                   | 114,894                     | 819,649,990       | 37,898,135                  |
| <b>Investor-Owned Utilities in MAPP</b>  |                             |                            |                             |                            |                             |                   |                             |
| Investor-Owned .....                     | 56,401,591                  | 179,195                    | 3,047,838                   | 216,303,805                | 5,316,876                   | 364,065,733       | 11,377,352                  |
| Federal .....                            | 42,405,092                  | 15,656                     | 3,367,041                   | —                          | -55,656                     | 42,420,748        | 3,311,385                   |
| State and Other                          |                             |                            |                             |                            |                             |                   |                             |
| Government .....                         | 32,220,769                  | 82,701,712                 | 4,176,156                   | —                          | —                           | 144,063,552       | 5,016,799                   |
| Municipals .....                         | 7,759,309                   | 3,387                      | 493,239                     | —                          | —                           | 9,440,882         | 516,684                     |
| Cooperatives .....                       | 36,346,910                  | 9,468                      | 2,221,922                   | 171,617                    | —                           | 171,780,712       | 7,166,967                   |
| Other <sup>3</sup> .....                 | 18,153,791                  | 37,131                     | 873,988                     | 109,544                    | 1,042                       | 212,962,340       | 8,885,886                   |
| Total .....                              | 193,287,462                 | 82,946,549                 | 14,180,184                  | 216,584,966                | 5,262,262                   | 944,733,967       | 36,275,073                  |

See notes and footnotes at end of table.

**Table 8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1996**  
(Continued)

| Sellers by<br>Ownership Class           | Demand<br>Charge<br>Only <sup>1</sup><br>(dollars) | Firm                        |                             |                            |                            | Purchases<br>(thousand kWh) |
|---|--|-----------------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|
|   |  | Demand<br>Cost<br>(dollars) | Energy<br>Cost<br>(dollars) | Other<br>Cost<br>(dollars) | Total<br>Cost<br>(dollars) |                             |
| <b>Investor-Owned Utilities in NPCC</b> |  |                             |                             |                            |                            |                             |
| Investor-Owned .....                    | 10,099,103   | 1,480,737,343               | 817,100,234                 | 273,180,613                | 2,571,018,190              | 43,283,912                  |
| Federal .....                           | —  | —                           | —                           | —                          | —                          | —                           |
| State and Other                         |  |                             |                             |                            |                            |                             |
| Government .....                        | 12,944,171   | 111,591,161                 | 184,291,829                 | 19,538,959                 | 315,421,949                | 16,815,741                  |
| Municipals .....                        | —  | 5,618,355                   | 3,254,744                   | —                          | 8,873,099                  | 117,245                     |
| Cooperatives .....                      | —  | 52,815                      | —                           | —                          | 52,815                     | 558                         |
| Other <sup>2</sup> .....                | -5,783,837   | 700,222,057                 | 1,079,343,421               | 13,040,972                 | 1,792,606,450              | 30,335,298                  |
| Total .....                             | 17,259,437   | 2,298,221,731               | 2,083,990,228               | 305,760,544                | 4,687,972,503              | 90,552,754                  |
| <b>Investor-Owned Utilities in SERC</b> |  |                             |                             |                            |                            |                             |
| Investor-Owned .....                    | 6,141,978  | 159,735,710                 | 218,581,581                 | -1,213,541                 | 377,103,750                | 11,436,748                  |
| Federal .....                           | —  | —                           | —                           | —                          | —                          | —                           |
| State and Other                         |  |                             |                             |                            |                            |                             |
| Government .....                        | —  | 78,304,596                  | 36,415,739                  | —                          | 114,720,335                | 2,184,977                   |
| Municipals .....                        | 492,480  | 237,771,983                 | 82,191,130                  | 958,055                    | 320,921,168                | 6,172,721                   |
| Cooperatives .....                      | 16,650   | 27,108,974                  | 56,303,499                  | -1,311                     | 83,411,162                 | 2,878,624                   |
| Other <sup>2</sup> .....                | 325,000  | 1,376,252,241               | 1,002,905,582               | 2,955                      | 2,379,160,778              | 40,791,487                  |
| Total .....                             | 6,976,108  | 1,879,173,504               | 1,396,397,531               | -253,842                   | 3,275,317,193              | 63,464,557                  |
| <b>Investor-Owned Utilities in SPP</b>  |  |                             |                             |                            |                            |                             |
| Investor-Owned .....                    | —  | 657,445,214                 | 73,721,635                  | -1,819,643                 | 729,347,206                | 9,788,779                   |
| Federal .....                           | —  | —                           | —                           | —                          | —                          | —                           |
| State and Other                         |  |                             |                             |                            |                            |                             |
| Government .....                        | —  | 1,558,688                   | 4,845,099                   | —                          | 6,403,787                  | 320,705                     |
| Municipals .....                        | 992,250  | 2,745,029                   | 1,173,322                   | —                          | 3,918,351                  | 78,450                      |
| Cooperatives .....                      | 25,000   | 14,768,582                  | 14,410,646                  | —                          | 29,179,228                 | 683,451                     |
| Other <sup>2</sup> .....                | —  | 5,441,316                   | 7,575,802                   | —                          | 13,017,118                 | 456,396                     |
| Total .....                             | 1,017,250  | 681,958,829                 | 101,726,504                 | -1,819,643                 | 781,865,690                | 11,327,781                  |
| <b>Investor-Owned Utilities in WSCC</b> |  |                             |                             |                            |                            |                             |
| Investor-Owned .....                    | 36,838,560   | 309,422,113                 | 175,597,281                 | 73,709                     | 485,093,103                | 10,386,267                  |
| Federal .....                           | 88,159,629   | 5,740,790                   | 28,951,876                  | -204,602                   | 34,488,064                 | 1,388,868                   |
| State and Other                         |  |                             |                             |                            |                            |                             |
| Government .....                        | 1,394,500  | 59,455,181                  | 49,620,969                  | 1,029,062                  | 110,105,212                | 2,735,288                   |
| Municipals .....                        | 2,388,200  | 41,758,248                  | 52,049,113                  | -1,078,788                 | 92,728,573                 | 1,476,871                   |
| Cooperatives .....                      | —  | 121,246,097                 | 65,684,865                  | —                          | 186,930,962                | 4,078,648                   |
| Other <sup>2</sup> .....                | 14,321,461   | 1,525,146,162               | 3,046,109,326               | 7,648,671                  | 4,578,904,159              | 60,044,712                  |
| Total .....                             | 143,102,350  | 2,062,768,591               | 3,418,013,430               | 7,468,052                  | 5,488,250,073              | 80,110,654                  |
| <b>Contiguous U.S. Total</b>            |  |                             |                             |                            |                            |                             |
| Investor-Owned .....                    | 59,859,403   | 3,414,590,318               | 2,662,984,747               | 245,842,669                | 6,323,417,734              | 142,020,044                 |
| Federal .....                           | 88,159,629   | 8,977,913                   | 52,051,075                  | -204,602                   | 60,824,386                 | 2,437,362                   |
| State and Other                         |  |                             |                             |                            |                            |                             |
| Government .....                        | 14,371,885   | 274,621,862                 | 295,232,031                 | 21,656,358                 | 591,510,251                | 23,368,493                  |
| Municipals .....                        | 3,955,680  | 298,670,718                 | 166,478,490                 | -120,733                   | 465,028,475                | 9,666,279                   |
| Cooperatives .....                      | 4,247,162  | 250,218,588                 | 213,521,512                 | 644,648                    | 464,384,748                | 13,820,130                  |
| Other <sup>2</sup> .....                | 8,867,344  | 4,553,800,234               | 6,135,422,217               | 20,642,290                 | 10,709,864,741             | 178,547,236                 |
| Total .....                             | 179,461,103  | 8,800,879,633               | 9,525,690,072               | 288,460,630                | 18,615,030,335             | 369,859,544                 |

See notes and footnotes at end of table.

**Table 8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1996**  
(Continued)

| Sellers by<br>Ownership Class           | Nonfirm                     |                            |                             | Miscellaneous <sup>2</sup> |                             | Region Total      |                             |
|---|-----------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|-------------------|-----------------------------|
|   | Energy<br>Cost<br>(dollars) | Other<br>Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars)          | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) |
| <b>Investor-Owned Utilities in NPCC</b> |                             |                            |                             |                            |                             |                   |                             |
| Investor-Owned .....                    | 574,422,752                 | 524,206,293                | 33,488,665                  | 13,903,111                 | 565                         | 3,693,649,449     | 76,773,142                  |
| Federal .....                           | —                           | —                          | —                           | —                          | —                           | —                 | —                           |
| State and Other                         |                             |                            |                             |                            |                             |                   |                             |
| Government .....                        | 17,465,458                  | 31,453                     | 820,081                     | 182,680                    | 26,058                      | 346,045,711       | 17,661,880                  |
| Municipals .....                        | 74,456,071                  | 333,086                    | 1,041,596                   | —                          | —                           | 83,662,256        | 1,158,841                   |
| Cooperatives .....                      | 1,416,245                   | 11,320,777                 | 240,549                     | —                          | —                           | 12,789,837        | 241,107                     |
| Other <sup>3</sup> .....                | 3,029,038,366               | 122,182,535                | 60,105,285                  | 8,136,256                  | -5,686                      | 4,946,179,770     | 90,434,897                  |
| Total .....                             | 3,696,798,892               | 658,074,144                | 95,696,176                  | 22,222,047                 | 20,937                      | 9,082,327,023     | 186,269,867                 |
| <b>Investor-Owned Utilities in SERC</b> |                             |                            |                             |                            |                             |                   |                             |
| Investor-Owned .....                    | 354,796,455                 | 61,681                     | 13,740,001                  | —                          | -3,602                      | 738,103,864       | 25,173,147                  |
| Federal .....                           | 16,390,608                  | —                          | 812,569                     | —                          | —                           | 16,390,608        | 812,569                     |
| State and Other                         |                             |                            |                             |                            |                             |                   |                             |
| Government .....                        | 3,796,047                   | —                          | 154,404                     | —                          | —                           | 118,516,382       | 2,339,381                   |
| Municipals .....                        | 24,650,633                  | 170                        | 1,150,987                   | —                          | —                           | 346,064,451       | 7,323,708                   |
| Cooperatives .....                      | 40,846,684                  | 2,855                      | 2,250,175                   | —                          | 5,179                       | 124,277,351       | 5,133,978                   |
| Other <sup>3</sup> .....                | 316,220,962                 | 4,448,621                  | 14,034,770                  | —                          | 187,566                     | 2,700,155,361     | 55,013,823                  |
| Total .....                             | 756,701,389                 | 4,513,327                  | 32,142,906                  | —                          | 189,143                     | 4,043,508,017     | 95,796,606                  |
| <b>Investor-Owned Utilities in SPP</b>  |                             |                            |                             |                            |                             |                   |                             |
| Investor-Owned .....                    | 140,518,717                 | 136,949                    | 7,845,062                   | 8,357,642                  | 551,012                     | 878,360,514       | 18,184,853                  |
| Federal .....                           | 169,431,486                 | 9,600                      | 8,268,074                   | 2,118                      | 94                          | 169,443,204       | 8,268,168                   |
| State and Other                         |                             |                            |                             |                            |                             |                   |                             |
| Government .....                        | 21,780,248                  | 3,305,851                  | 1,375,969                   | 59,380                     | 2,934                       | 31,549,266        | 1,699,608                   |
| Municipals .....                        | 9,552,051                   | 1,461,625                  | 537,294                     | 5,746                      | 62,467                      | 15,930,023        | 678,211                     |
| Cooperatives .....                      | 144,256,028                 | 22,787,500                 | 7,300,646                   | 2,934                      | 1,132,568                   | 196,250,690       | 9,116,665                   |
| Other <sup>3</sup> .....                | 700,299,720                 | 193,575,763                | 28,545,919                  | 13,424,263                 | 674,081                     | 920,316,864       | 29,676,396                  |
| Total .....                             | 1,185,838,250               | 221,277,288                | 53,872,964                  | 21,852,083                 | 2,423,156                   | 2,211,850,561     | 67,623,901                  |
| <b>Investor-Owned Utilities in WSCC</b> |                             |                            |                             |                            |                             |                   |                             |
| Investor-Owned .....                    | 355,116,977                 | 434,616                    | 22,630,566                  | 1,033,017                  | 228,243                     | 878,516,273       | 33,245,076                  |
| Federal .....                           | 323,318,249                 | 426,616                    | 23,524,952                  | 3,833,708                  | —                           | 450,226,266       | 24,913,820                  |
| State and Other                         |                             |                            |                             |                            |                             |                   |                             |
| Government .....                        | 272,317,739                 | 20,250                     | 26,439,942                  | 39,914,715                 | 2,994,294                   | 423,752,416       | 32,169,524                  |
| Municipals .....                        | 84,352,400                  | 515,526                    | 4,000,407                   | -4,152,516                 | -74,262                     | 175,832,183       | 5,403,016                   |
| Cooperatives .....                      | 34,613,378                  | 1,000,400                  | 2,395,079                   | 75,238                     | —                           | 222,619,978       | 6,473,727                   |
| Other <sup>3</sup> .....                | 862,280,581                 | 48,167,456                 | 37,905,530                  | -75,068,196                | 38,834                      | 5,428,605,461     | 97,989,076                  |
| Total .....                             | 1,931,999,324               | 50,564,864                 | 116,896,476                 | -34,364,034                | 3,187,109                   | 7,579,552,577     | 200,194,239                 |
| <b>Contiguous U.S. Total</b>            |                             |                            |                             |                            |                             |                   |                             |
| Investor-Owned .....                    | 2,721,264,544               | 695,466,848                | 140,415,252                 | 581,884,371                | 17,757,085                  | 10,381,892,900    | 300,192,381                 |
| Federal .....                           | 576,164,769                 | 451,872                    | 37,347,158                  | 3,835,826                  | -55,562                     | 729,436,482       | 39,728,958                  |
| State and Other                         |                             |                            |                             |                            |                             |                   |                             |
| Government .....                        | 356,750,670                 | 86,093,301                 | 33,517,167                  | 40,156,775                 | 3,023,286                   | 1,088,882,882     | 59,908,946                  |
| Municipals .....                        | 369,415,682                 | 3,752,709                  | 11,695,088                  | -4,145,430                 | -12,347                     | 838,007,116       | 21,349,020                  |
| Cooperatives .....                      | 312,601,410                 | 36,925,928                 | 17,943,386                  | 5,788,694                  | 1,161,335                   | 823,947,942       | 32,924,851                  |
| Other <sup>3</sup> .....                | 7,904,316,854               | 539,580,762                | 255,648,515                 | -22,485,974                | 1,293,738                   | 19,140,143,727    | 435,489,489                 |
| Total .....                             | 12,240,513,929              | 1,362,271,420              | 496,566,566                 | 605,034,262                | 23,167,535                  | 33,002,311,049    | 889,593,645                 |

<sup>1</sup> Monetary settlements from contracts where electricity is not taken.

<sup>2</sup> Includes other transactions involving line and substation rentals, system support charges, and special contract transactions.

<sup>3</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

**Table 9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1996**

| Purchasers by Ownership Class            | Demand Charge Only <sup>1</sup> (dollars) | Firm                     |                          |                         |                         | Sales (thousand kWh) |
|--|---|--------------------------|--------------------------|-------------------------|-------------------------|----------------------|
|  |   | Demand Revenue (dollars) | Energy Revenue (dollars) | Other Revenue (dollars) | Total Revenue (dollars) |                      |
| <b>Investor-Owned Utilities in ECAR</b>  |   |                          |                          |                         |                         |                      |
| Investor-Owned .....                     | 556,381                                   | 436,983,128              | 887,941,603              | -11,662,658             | 1,313,262,073           | 50,338,284           |
| Federal .....                            | —   | 685,213                  | 2,146,095                | —                       | 2,831,308               | 106,165              |
| State and Other                          |   |                          |                          |                         |                         |                      |
| Government .....                         | —   | 18,980,799               | 36,050,233               | -3,784,151              | 51,246,881              | 2,188,568            |
| Municipals .....                         | 1,929,277                                 | 213,401,969              | 262,633,416              | -18,126,352             | 457,909,033             | 13,644,282           |
| Cooperatives .....                       | —   | 88,170,391               | 107,295,362              | -2,361,258              | 193,104,495             | 6,330,969            |
| Other <sup>2</sup> .....                 | 333,334                                   | 17,119,359               | 152,737,058              | 10,231                  | 169,866,648             | 8,102,135            |
| Total .....                              | 2,818,992                                 | 775,340,859              | 1,448,803,767            | -35,924,188             | 2,188,220,438           | 80,710,403           |
| <b>Investor-Owned Utilities in ERCOT</b> |   |                          |                          |                         |                         |                      |
| Investor-Owned .....                     | 2,574,672                                 | 78,691,608               | 15,346,711               | 36,085,551              | 130,123,870             | 2,438,089            |
| Federal .....                            | —   | —                        | —                        | —                       | —                       | —                    |
| State and Other                          |   |                          |                          |                         |                         |                      |
| Government .....                         | —   | —                        | —                        | —                       | —                       | —                    |
| Municipals .....                         | —   | 6,917,484                | 5,320,411                | 9,151,256               | 21,389,151              | 675,054              |
| Cooperatives .....                       | —   | 99,514,118               | 66,588,491               | 24,979,168              | 191,081,777             | 4,196,820            |
| Other <sup>2</sup> .....                 | —   | 2,358,490                | 16,135,316               | 183,635                 | 18,677,441              | 717,751              |
| Total .....                              | 2,574,672                                 | 187,481,700              | 103,390,929              | 70,399,610              | 361,272,239             | 8,027,714            |
| <b>Investor-Owned Utilities in MAAC</b>  |   |                          |                          |                         |                         |                      |
| Investor-Owned .....                     | —   | 55,643,194               | 319,387,139              | 339,338                 | 375,369,671             | 14,986,879           |
| Federal .....                            | —   | 680,346                  | 7,809,442                | —                       | 8,489,788               | 402,463              |
| State and Other                          |   |                          |                          |                         |                         |                      |
| Government .....                         | —   | 502,272                  | 5,439,920                | —                       | 5,942,192               | 282,667              |
| Municipals .....                         | —   | 28,679,489               | 49,319,706               | -456,714                | 77,542,481              | 2,091,109            |
| Cooperatives .....                       | —   | 85,196,527               | 95,102,775               | -5,948,270              | 174,351,032             | 3,601,810            |
| Other <sup>2</sup> .....                 | 628,990                                   | 36,756,200               | 194,136,375              | 357,094                 | 231,249,669             | 8,453,692            |
| Total .....                              | 628,990                                   | 207,458,028              | 671,195,357              | -5,708,552              | 872,944,833             | 29,818,620           |
| <b>Investor-Owned Utilities in MAIN</b>  |   |                          |                          |                         |                         |                      |
| Investor-Owned .....                     | 30,000                                    | 108,897,678              | 267,905,735              | -697,175                | 376,106,238             | 13,749,697           |
| Federal .....                            | —   | —                        | —                        | —                       | —                       | —                    |
| State and Other                          |   |                          |                          |                         |                         |                      |
| Government .....                         | —   | —                        | —                        | —                       | —                       | —                    |
| Municipals .....                         | 53,760                                    | 103,230,481              | 165,158,042              | -15,664,580             | 252,723,943             | 7,656,870            |
| Cooperatives .....                       | —   | 65,675,199               | 39,815,875               | 381,604                 | 105,872,678             | 2,535,308            |
| Other <sup>2</sup> .....                 | -1,194,972                                | 2,178,692                | 59,614,015               | 2,720                   | 61,795,427              | 3,568,740            |
| Total .....                              | -1,111,212                                | 279,982,050              | 532,493,667              | -15,977,431             | 796,498,286             | 27,510,615           |
| <b>Investor-Owned Utilities in MAPP</b>  |   |                          |                          |                         |                         |                      |
| Investor-Owned .....                     | 808,975                                   | 41,731,087               | 85,621,748               | -162,423                | 127,190,412             | 6,199,491            |
| Federal .....                            | —   | —                        | —                        | —                       | —                       | —                    |
| State and Other                          |   |                          |                          |                         |                         |                      |
| Government .....                         | —   | 5,533                    | 2,876                    | 416                     | 8,825                   | 261                  |
| Municipals .....                         | —   | 40,296,771               | 49,037,379               | 4,721,040               | 94,055,190              | 3,066,097            |
| Cooperatives .....                       | 69,200                                    | 1,672,262                | 3,182,777                | 216,157                 | 5,071,196               | 182,378              |
| Other <sup>2</sup> .....                 | 161,245                                   | 909,437                  | 1,566,805                | 18,791                  | 2,495,033               | 115,020              |
| Total .....                              | 1,039,420                                 | 84,615,090               | 139,411,585              | 4,793,981               | 228,820,656             | 9,563,247            |

See notes and footnotes at end of table.



**Table 9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1996**  
(Continued)

| Purchasers by<br>Ownership Class         | Nonfirm                        |                               |                         | Miscellaneous <sup>2</sup> |                         | Region Total         |                         |
|--|--------------------------------|-------------------------------|-------------------------|----------------------------|-------------------------|----------------------|-------------------------|
|  | Energy<br>Revenue<br>(dollars) | Other<br>Revenue<br>(dollars) | Sales<br>(thousand kWh) | Revenue<br>(dollars)       | Sales<br>(thousand kWh) | Revenue<br>(dollars) | Sales<br>(thousand kWh) |
| <b>Investor-Owned Utilities in ECAR</b>  |                                |                               |                         |                            |                         |                      |                         |
| Investor-Owned .....                     | 583,817,936                    | 30,637,900                    | 22,692,419              | 141,355,885                | 761,716                 | 2,069,630,175        | 73,792,419              |
| Federal .....                            | 23,453,845                     | 1,915,903                     | 1,022,684               | —                          | —                       | 28,201,056           | 1,128,849               |
| State and Other                          |                                |                               |                         |                            |                         |                      |                         |
| Government .....                         | 8,799,874                      | 1,104,760                     | 467,455                 | —                          | —                       | 61,151,515           | 2,656,023               |
| Municipals .....                         | 13,272,336                     | 2,823,723                     | 701,778                 | 5,400                      | —                       | 475,939,769          | 14,346,060              |
| Cooperatives .....                       | 27,938,026                     | 1,788,128                     | 1,457,608               | —                          | 637                     | 222,830,649          | 7,789,214               |
| Other <sup>3</sup> .....                 | 698,966,236                    | 3,962,440                     | 38,989,636              | 56,464,590                 | 6,011,148               | 929,593,248          | 53,102,919              |
| Total .....                              | 1,356,248,253                  | 42,232,854                    | 65,331,580              | 197,825,875                | 6,773,501               | 3,787,346,412        | 152,815,484             |
| <b>Investor-Owned Utilities in ERCOT</b> |                                |                               |                         |                            |                         |                      |                         |
| Investor-Owned .....                     | 18,207,454                     | 1,893,076                     | 641,556                 | 1,115                      | —                       | 152,800,187          | 3,079,645               |
| Federal .....                            | —                              | —                             | —                       | —                          | —                       | —                    | —                       |
| State and Other                          |                                |                               |                         |                            |                         |                      |                         |
| Government .....                         | 4,912,622                      | 49,581                        | 168,394                 | —                          | —                       | 4,962,203            | 168,394                 |
| Municipals .....                         | 14,553,881                     | 1,611,506                     | 577,132                 | -7,725                     | —                       | 37,546,813           | 1,252,186               |
| Cooperatives .....                       | 2,829,939                      | 103,659                       | 131,106                 | —                          | —                       | 194,015,375          | 4,327,926               |
| Other <sup>3</sup> .....                 | 31,766,056                     | 471,161                       | 1,271,287               | 1,156,309                  | 580                     | 52,070,967           | 1,989,618               |
| Total .....                              | 72,269,952                     | 4,128,983                     | 2,789,475               | 1,149,699                  | 580                     | 441,395,545          | 10,817,769              |
| <b>Investor-Owned Utilities in MAAC</b>  |                                |                               |                         |                            |                         |                      |                         |
| Investor-Owned .....                     | 238,620,814                    | 198,398,593                   | 14,607,012              | 122,974,917                | 5,506,297               | 935,363,995          | 35,100,188              |
| Federal .....                            | —                              | —                             | —                       | —                          | —                       | 8,489,788            | 402,463                 |
| State and Other                          |                                |                               |                         |                            |                         |                      |                         |
| Government .....                         | 79,108                         | —                             | 4,088                   | —                          | —                       | 6,021,300            | 286,755                 |
| Municipals .....                         | 19,454,313                     | 214,169                       | 758,337                 | —                          | 21,701                  | 97,210,963           | 2,871,147               |
| Cooperatives .....                       | 805,642                        | —                             | 36,595                  | —                          | —                       | 175,156,674          | 3,638,405               |
| Other <sup>3</sup> .....                 | 359,648,796                    | 12,646,460                    | 16,622,012              | 82,299,755                 | 3,145,496               | 686,473,670          | 28,221,200              |
| Total .....                              | 618,608,673                    | 211,259,222                   | 32,028,044              | 205,274,672                | 8,673,494               | 1,908,716,390        | 70,520,158              |
| <b>Investor-Owned Utilities in MAIN</b>  |                                |                               |                         |                            |                         |                      |                         |
| Investor-Owned .....                     | 197,739,370                    | 1,415,774                     | 11,768,946              | —                          | 1,551                   | 575,291,382          | 25,520,194              |
| Federal .....                            | 13,118,068                     | —                             | 762,047                 | —                          | —                       | 13,118,068           | 762,047                 |
| State and Other                          |                                |                               |                         |                            |                         |                      |                         |
| Government .....                         | —                              | —                             | —                       | —                          | —                       | —                    | —                       |
| Municipals .....                         | 57,645,269                     | 2,008,500                     | 2,077,760               | —                          | —                       | 312,431,472          | 9,734,630               |
| Cooperatives .....                       | 34,067,843                     | —                             | 1,135,492               | —                          | —                       | 139,940,521          | 3,670,800               |
| Other <sup>3</sup> .....                 | 91,389,185                     | 344,050                       | 7,898,876               | —                          | —                       | 152,333,690          | 11,467,616              |
| Total .....                              | 393,959,735                    | 3,768,324                     | 23,643,121              | —                          | 1,551                   | 1,193,115,133        | 51,155,287              |
| <b>Investor-Owned Utilities in MAPP</b>  |                                |                               |                         |                            |                         |                      |                         |
| Investor-Owned .....                     | 73,590,298                     | 2,088,780                     | 4,925,794               | 173,395,725                | 5,728,200               | 377,074,190          | 16,853,485              |
| Federal .....                            | 940,794                        | 925                           | 75,098                  | —                          | —                       | 941,719              | 75,098                  |
| State and Other                          |                                |                               |                         |                            |                         |                      |                         |
| Government .....                         | 9,107,319                      | 55,303                        | 532,541                 | —                          | —                       | 9,171,447            | 532,802                 |
| Municipals .....                         | 14,466,686                     | 354,290                       | 898,245                 | -1,507                     | —                       | 108,874,659          | 3,964,342               |
| Cooperatives .....                       | 31,851,952                     | 1,224,981                     | 2,139,012               | —                          | —                       | 38,217,329           | 2,321,390               |
| Other <sup>3</sup> .....                 | 9,446,117                      | 444,446                       | 691,317                 | -44,706                    | -7,463                  | 12,502,135           | 798,874                 |
| Total .....                              | 139,403,166                    | 4,168,725                     | 9,262,007               | 173,349,512                | 5,720,737               | 546,781,479          | 24,545,991              |

See notes and footnotes at end of table.

**Table 9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1996**  
(Continued)

| Purchasers by<br>Ownership Class        | Demand<br>Charge<br>Only <sup>1</sup><br>(dollars) | Firm                           |                                |                               |                               | Sales<br>(thousand kWh) |
|---|--|--------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------|
|   |  | Demand<br>Revenue<br>(dollars) | Energy<br>Revenue<br>(dollars) | Other<br>Revenue<br>(dollars) | Total<br>Revenue<br>(dollars) |                         |
| <b>Investor-Owned Utilities in NPCC</b> |  |                                |                                |                               |                               |                         |
| Investor-Owned .....                    | 20,050   | 1,450,013,010                  | 794,823,216                    | 291,244,671                   | 2,536,080,897                 | 42,892,312              |
| Federal .....                           | —  | —                              | —                              | —                             | —                             | —                       |
| State and Other                         |  |                                |                                |                               |                               |                         |
| Government .....                        | —  | 439,137                        | 8,663,431                      | —                             | 9,102,568                     | 492,971                 |
| Municipals .....                        | 470,006  | 81,261,669                     | 49,190,251                     | 5,004,670                     | 135,456,590                   | 2,731,690               |
| Cooperatives .....                      | 2,460  | 20,054,027                     | 36,509,178                     | -2,272,316                    | 54,290,889                    | 755,680                 |
| Other <sup>2</sup> .....                | —  | 34,528,821                     | 57,886,691                     | 763,578                       | 93,179,090                    | 3,449,211               |
| Total .....                             | 492,516  | 1,586,296,664                  | 947,072,767                    | 294,740,603                   | 2,828,110,034                 | 50,321,864              |
| <b>Investor-Owned Utilities in SERC</b> |  |                                |                                |                               |                               |                         |
| Investor-Owned .....                    | 6,169,800  | 125,301,468                    | 198,046,391                    | -2,136,657                    | 321,211,202                   | 9,604,046               |
| Federal .....                           | —  | 70,000                         | 3,825,579                      | —                             | 3,895,579                     | 182,074                 |
| State and Other                         |  |                                |                                |                               |                               |                         |
| Government .....                        | —  | 1,706,921                      | 15,655,315                     | 363,947                       | 17,726,183                    | 705,943                 |
| Municipals .....                        | 107,121  | 277,511,177                    | 239,965,906                    | 6,322,845                     | 523,799,928                   | 12,788,798              |
| Cooperatives .....                      | 28,623   | 557,212,314                    | 287,667,728                    | 22,426,189                    | 867,306,231                   | 15,834,431              |
| Other <sup>2</sup> .....                | 60,000   | 25,050,336                     | 89,575,092                     | 73,651                        | 114,699,079                   | 3,524,860               |
| Total .....                             | 6,365,544  | 986,852,216                    | 834,736,011                    | 27,049,975                    | 1,848,638,202                 | 42,640,152              |
| <b>Investor-Owned Utilities in SPP</b>  |  |                                |                                |                               |                               |                         |
| Investor-Owned .....                    | 1,992,039  | 43,911,987                     | 22,815,542                     | 7,553,066                     | 74,280,595                    | 2,358,024               |
| Federal .....                           | —  | 1,094,585                      | 1,850,425                      | 119,163                       | 3,064,173                     | 81,469                  |
| State and Other                         |  |                                |                                |                               |                               |                         |
| Government .....                        | 166,320  | 20,635,355                     | 16,258,825                     | -1,511,677                    | 35,382,503                    | 948,393                 |
| Municipals .....                        | 122,816  | 67,240,503                     | 124,891,077                    | 11,803,205                    | 203,934,785                   | 5,898,869               |
| Cooperatives .....                      | 8,671,098  | 172,923,584                    | 125,834,381                    | 88,230,659                    | 386,988,624                   | 11,557,278              |
| Other <sup>2</sup> .....                | 82,500   | 49,757,739                     | 99,616,351                     | 13,926,485                    | 163,300,575                   | 4,739,639               |
| Total .....                             | 11,034,773   | 355,563,753                    | 391,266,601                    | 120,120,901                   | 866,951,255                   | 25,583,672              |
| <b>Investor-Owned Utilities in WSCC</b> |  |                                |                                |                               |                               |                         |
| Investor-Owned .....                    | 21,024,600   | 303,794,955                    | 195,633,598                    | 3,971,096                     | 503,399,649                   | 11,696,131              |
| Federal .....                           | 2,061,254  | 57,383,194                     | 51,377,295                     | -54,587                       | 108,705,902                   | 2,404,166               |
| State and Other                         |  |                                |                                |                               |                               |                         |
| Government .....                        | 661,254  | 182,596,010                    | 107,556,253                    | 8,400,863                     | 298,553,126                   | 5,610,060               |
| Municipals .....                        | 462,500  | 107,892,808                    | 75,386,113                     | 1,024,397                     | 184,303,318                   | 3,777,721               |
| Cooperatives .....                      | 750  | 58,457,189                     | 53,962,930                     | -7,050,553                    | 105,369,566                   | 2,672,694               |
| Other <sup>2</sup> .....                | 985,461  | 49,992,986                     | 48,535,490                     | 14,024,723                    | 112,553,199                   | 4,034,997               |
| Total .....                             | 25,195,819   | 760,117,142                    | 532,451,679                    | 20,315,939                    | 1,312,884,760                 | 30,195,769              |
| <b>Contiguous U.S. Total</b>            |  |                                |                                |                               |                               |                         |
| Investor-Owned .....                    | 33,176,517   | 2,644,968,115                  | 2,787,521,683                  | 324,534,809                   | 5,757,024,607                 | 154,262,953             |
| Federal .....                           | 2,061,254  | 59,913,338                     | 67,008,836                     | 64,576                        | 126,986,750                   | 3,176,337               |
| State and Other                         |  |                                |                                |                               |                               |                         |
| Government .....                        | 827,574  | 224,866,027                    | 189,626,853                    | 3,469,398                     | 417,962,278                   | 10,228,863              |
| Municipals .....                        | 3,145,480  | 926,432,351                    | 1,020,902,301                  | 3,779,767                     | 1,951,114,419                 | 52,330,490              |
| Cooperatives .....                      | 8,772,131  | 1,148,875,611                  | 815,959,497                    | 118,601,380                   | 2,083,436,488                 | 47,667,368              |
| Other <sup>2</sup> .....                | 1,056,558  | 218,652,060                    | 719,803,193                    | 29,360,908                    | 967,816,161                   | 36,706,045              |
| Total .....                             | 49,039,514   | 5,223,707,502                  | 5,600,822,363                  | 479,810,838                   | 11,304,340,703                | 304,372,056             |

See notes and footnotes at end of table.

**Table 9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1996**  
(Continued)

| Purchasers by Ownership Class           | Nonfirm                  |                         |                      | Miscellaneous <sup>2</sup> |                      | Region Total      |                      |
|---|--------------------------|-------------------------|----------------------|----------------------------|----------------------|-------------------|----------------------|
|   | Energy Revenue (dollars) | Other Revenue (dollars) | Sales (thousand kWh) | Revenue (dollars)          | Sales (thousand kWh) | Revenue (dollars) | Sales (thousand kWh) |
| <b>Investor-Owned Utilities in NPCC</b> |                          |                         |                      |                            |                      |                   |                      |
| Investor-Owned .....                    | 309,678,914              | 421,651,486             | 16,717,805           | 189,008,300                | 3,964,681            | 3,456,439,647     | 63,574,798           |
| Federal .....                           | —                        | —                       | —                    | —                          | —                    | —                 | —                    |
| State and Other                         |                          |                         |                      |                            |                      |                   |                      |
| Government .....                        | 4,179,653                | 1,666,039               | 168,447              | 190,000                    | —                    | 15,138,260        | 661,418              |
| Municipals .....                        | 52,318,952               | 54,887,784              | 2,379,094            | 5,125,827                  | —                    | 248,259,159       | 5,110,784            |
| Cooperatives .....                      | 1,311,662                | 660,942                 | 64,779               | 68,609                     | -216                 | 56,334,562        | 820,243              |
| Other <sup>3</sup> .....                | 771,858,414              | 57,224,402              | 32,284,600           | 7,976,862                  | 14,906               | 930,238,768       | 35,748,717           |
| Total .....                             | 1,139,347,595            | 536,090,653             | 51,614,725           | 202,369,598                | 3,979,371            | 4,706,410,396     | 105,915,960          |
| <b>Investor-Owned Utilities in SERC</b> |                          |                         |                      |                            |                      |                   |                      |
| Investor-Owned .....                    | 1,268,581,110            | -1,153,716              | 28,672,171           | —                          | 3,200                | 1,594,808,396     | 38,279,417           |
| Federal .....                           | 7,330,738                | 5,000                   | 276,139              | —                          | -1,402               | 11,231,317        | 456,811              |
| State and Other                         |                          |                         |                      |                            |                      |                   |                      |
| Government .....                        | 3,478,170                | —                       | 127,302              | —                          | 29                   | 21,204,353        | 833,274              |
| Municipals .....                        | 214,859,293              | -7,528,406              | 5,890,309            | 1,371                      | —                    | 731,239,307       | 18,679,107           |
| Cooperatives .....                      | 91,320,774               | 38,899,242              | 3,622,986            | —                          | 800                  | 997,554,870       | 19,458,217           |
| Other <sup>3</sup> .....                | 333,109,408              | 12,943,097              | 14,961,345           | -21,514,146                | -412,194             | 439,297,438       | 18,074,011           |
| Total .....                             | 1,918,679,493            | 43,165,217              | 53,550,252           | -21,512,775                | -409,567             | 3,795,335,681     | 95,780,837           |
| <b>Investor-Owned Utilities in SPP</b>  |                          |                         |                      |                            |                      |                   |                      |
| Investor-Owned .....                    | 215,461,381              | 2,010,684               | 7,706,349            | 4,477                      | 4,054                | 293,749,176       | 10,068,427           |
| Federal .....                           | 3,101,391                | -488,917                | 102,457              | —                          | 2                    | 5,676,647         | 183,928              |
| State and Other                         |                          |                         |                      |                            |                      |                   |                      |
| Government .....                        | 8,761,841                | 18,668                  | 353,995              | 423,497                    | 911                  | 44,752,829        | 1,303,299            |
| Municipals .....                        | 35,124,710               | 5,635,048               | 1,609,557            | 2,505,901                  | 75,819               | 247,323,260       | 7,584,245            |
| Cooperatives .....                      | 39,241,862               | 58,320                  | 2,301,081            | 13,788,979                 | 2,193                | 448,748,883       | 13,860,552           |
| Other <sup>3</sup> .....                | 474,622,310              | 1,510,704               | 20,222,024           | 6,101,946                  | 239,567              | 645,618,035       | 25,201,230           |
| Total .....                             | 776,313,495              | 8,744,507               | 32,295,463           | 22,824,800                 | 322,546              | 1,685,868,830     | 58,201,681           |
| <b>Investor-Owned Utilities in WSCC</b> |                          |                         |                      |                            |                      |                   |                      |
| Investor-Owned .....                    | 365,119,139              | 43,120                  | 24,272,117           | 420,552                    | 24,023               | 890,007,060       | 35,992,271           |
| Federal .....                           | 22,978,000               | —                       | 1,279,465            | -12,918,364                | —                    | 120,826,792       | 3,683,631            |
| State and Other                         |                          |                         |                      |                            |                      |                   |                      |
| Government .....                        | 58,411,185               | 34,720                  | 4,071,317            | -1,516                     | —                    | 357,658,769       | 9,681,377            |
| Municipals .....                        | 52,929,646               | -31,637                 | 3,843,103            | -6,848                     | —                    | 237,656,979       | 7,620,824            |
| Cooperatives .....                      | 20,453,594               | 473,217                 | 1,420,294            | 12,751                     | —                    | 126,309,878       | 4,092,988            |
| Other <sup>3</sup> .....                | 343,177,477              | —                       | 22,306,520           | -2,433,152                 | 349                  | 454,282,985       | 26,341,866           |
| Total .....                             | 863,069,041              | 519,420                 | 57,192,816           | -14,926,577                | 24,372               | 2,186,742,463     | 87,412,957           |
| <b>Contiguous U.S. Total</b>            |                          |                         |                      |                            |                      |                   |                      |
| Investor-Owned .....                    | 3,270,816,416            | 656,985,697             | 132,004,169          | 627,160,971                | 15,993,722           | 10,345,164,208    | 302,260,844          |
| Federal .....                           | 70,922,836               | 1,432,911               | 3,517,890            | -12,918,364                | -1,400               | 188,485,387       | 6,692,827            |
| State and Other                         |                          |                         |                      |                            |                      |                   |                      |
| Government .....                        | 97,729,772               | 2,929,071               | 5,893,539            | 611,981                    | 940                  | 520,060,676       | 16,123,342           |
| Municipals .....                        | 474,625,086              | 59,974,977              | 18,735,315           | 7,622,419                  | 97,520               | 2,496,482,381     | 71,163,325           |
| Cooperatives .....                      | 249,821,294              | 43,208,489              | 12,308,953           | 13,870,339                 | 3,414                | 2,399,108,741     | 59,979,735           |
| Other <sup>3</sup> .....                | 3,113,983,999            | 89,546,760              | 155,247,617          | 130,007,458                | 8,992,389            | 4,302,410,936     | 200,946,051          |
| Total .....                             | 7,277,899,403            | 854,077,905             | 327,707,483          | 766,354,804                | 25,086,585           | 20,251,712,329    | 657,166,124          |

<sup>1</sup> Monetary settlements from contracts where electricity is not taken.

<sup>2</sup> Includes other transactions involving line and substation rentals, system support charges, and special contract transactions.

<sup>3</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

**Table 10. Investor-Owned Utility Exchanges of Electricity with All Ownership Classes, by NERC Region, 1996**

| Exchange by<br>Investor-Owned Utilities<br>with Other Utilities | Received <sup>2</sup><br>(thousand kWh) | Delivered <sup>3</sup><br>(thousand kWh) | Demand<br>Charge<br>(dollars) | Energy<br>Charge<br>(dollars) | Other<br>Charge<br>(dollars) | Settlement<br>(dollars) |
|---|---|--|-------------------------------|-------------------------------|------------------------------|-------------------------|
| <b>Investor-Owned Utilities in ECAR</b>                         |   |  |                               |                               |                              |                         |
| Investor-Owned .....  | 753,864                                 | 716,291                                  | —                             | 278,423                       | -29,238                      | 249,185                 |
| Federal .....   | —                                       | —  | —                             | —                             | —                            | —                       |
| State and Other   |   |  |                               |                               |                              |                         |
| Government .....  | —                                       | —  | —                             | —                             | —                            | —                       |
| Municipals .....  | 58,002                                  | 58,694                                   | —                             | —                             | —                            | —                       |
| Cooperatives .....  | 127,534                                 | 160,537                                  | —                             | —                             | -24,192                      | -24,192                 |
| Other <sup>1</sup> .....  | 38,962                                  | 61,339                                   | —                             | —                             | —                            | —                       |
| Total .....   | 978,362                                 | 996,861                                  | —                             | 278,423                       | -53,430                      | 224,993                 |
| <b>Investor-Owned Utilities in ERCOT</b>                        |   |  |                               |                               |                              |                         |
| Investor-Owned .....  | 17,517,694                              | 16,517,066                               | —                             | —                             | 83,340                       | 83,340                  |
| Federal .....   | —                                       | —  | —                             | —                             | —                            | —                       |
| State and Other   |   |  |                               |                               |                              |                         |
| Government .....  | 1,510,767                               | 2,284,857                                | —                             | —                             | —                            | —                       |
| Municipals .....  | 3,183                                   | 9,425                                    | —                             | —                             | —                            | —                       |
| Cooperatives .....  | 77,210                                  | 226,777                                  | —                             | 3                             | 62,317                       | 62,320                  |
| Other <sup>1</sup> .....  | 14,451,875                              | 14,541,286                               | —                             | -106,677                      | —                            | -106,677                |
| Total .....   | 33,560,729                              | 33,579,411                               | —                             | -106,674                      | 145,657                      | 38,983                  |
| <b>Investor-Owned Utilities in MAIN</b>                         |   |  |                               |                               |                              |                         |
| Investor-Owned .....  | 65,727                                  | 5,337                                    | —                             | 6,980                         | 2,271                        | 9,251                   |
| Federal .....   | —                                       | —  | —                             | —                             | —                            | —                       |
| State and Other   |   |  |                               |                               |                              |                         |
| Government .....  | —                                       | —  | —                             | —                             | —                            | —                       |
| Municipals .....  | 1,520                                   | 34,415                                   | —                             | -634,056                      | -1,928                       | -635,984                |
| Cooperatives .....  | 17,565                                  | 27,433                                   | —                             | —                             | -221,415                     | -221,415                |
| Other <sup>1</sup> .....  | 33,973                                  | 72,930                                   | —                             | —                             | —                            | —                       |
| Total .....   | 118,785                                 | 140,115                                  | —                             | -627,076                      | -221,072                     | -848,148                |
| <b>Investor-Owned Utilities in MAPP</b>                         |   |  |                               |                               |                              |                         |
| Investor-Owned .....  | —                                       | —  | —                             | —                             | —                            | —                       |
| Federal .....   | 72,055                                  | 33,590                                   | —                             | —                             | 102,695                      | 102,695                 |
| State and Other   |   |  |                               |                               |                              |                         |
| Government .....  | 23,351                                  | 78                                       | —                             | —                             | —                            | —                       |
| Municipals .....  | —                                       | —  | —                             | —                             | —                            | —                       |
| Cooperatives .....  | 11,047                                  | 32,913                                   | —                             | —                             | —                            | —                       |
| Other <sup>1</sup> .....  | 143,228                                 | 5,812                                    | —                             | —                             | —                            | —                       |
| Total .....   | 249,681                                 | 72,393                                   | —                             | —                             | 102,695                      | 102,695                 |

See notes and footnotes at end of table.

**Table 10. Investor-Owned Utility Exchanges of Electricity with All Ownership Classes, by NERC Region, 1996 (Continued)**

| Exchange by<br>Investor-Owned Utilities<br>with Other Utilities | Received <sup>2</sup><br>(thousand kWh) | Delivered <sup>3</sup><br>(thousand kWh) | Demand<br>Charge<br>(dollars) | Energy<br>Charge<br>(dollars) | Other<br>Charge<br>(dollars) | Settlement<br>(dollars) |
|---|---|--|-------------------------------|-------------------------------|------------------------------|-------------------------|
| <b>Investor-Owned Utilities in NPCC</b>                         |   |  |                               |                               |                              |                         |
| Investor-Owned .....  | 634,778                                 | 188,270                                  | —                             | 977,123                       | 10,705,840                   | 11,682,963              |
| Federal .....   | —                                       | —  | —                             | —                             | —                            | —                       |
| State and Other   |   |  |                               |                               |                              |                         |
| Government .....  | 367,740                                 | 549,774                                  | 6,169,721                     | —                             | 2,400,000                    | 8,569,721               |
| Municipals .....  | —                                       | —  | —                             | —                             | —                            | —                       |
| Cooperatives .....  | —                                       | —  | —                             | —                             | —                            | —                       |
| Other <sup>1</sup> .....  | 56,063                                  | 16,709                                   | —                             | —                             | 1,017,392                    | 1,017,392               |
| Total .....   | 1,058,581                               | 754,753                                  | 6,169,721                     | 977,123                       | 14,123,232                   | 21,270,076              |
| <b>Investor-Owned Utilities in SERC</b>                         |   |  |                               |                               |                              |                         |
| Investor-Owned .....  | 33,299                                  | 27,202                                   | —                             | —                             | —                            | —                       |
| Federal .....   | 23,465                                  | 16,785                                   | —                             | —                             | —                            | —                       |
| State and Other   |   |  |                               |                               |                              |                         |
| Government .....  | 243,864                                 | 249,484                                  | —                             | —                             | —                            | —                       |
| Municipals .....  | 2,879,972                               | 2,578,714                                | -693,801                      | 3,547,369                     | —                            | 2,853,568               |
| Cooperatives .....  | 3,437,368                               | 2,907,350                                | -785,761                      | 4,601,447                     | —                            | 3,815,686               |
| Other <sup>1</sup> .....  | 1,818,471                               | 2,711,816                                | —                             | -1,027,064                    | —                            | -1,027,064              |
| Total .....   | 8,436,439                               | 8,491,351                                | -1,479,562                    | 7,121,752                     | —                            | 5,642,190               |
| <b>Investor-Owned Utilities in SPP</b>                          |   |  |                               |                               |                              |                         |
| Investor-Owned .....  | 72,922                                  | 85,304                                   | 1,570,000                     | 11,514                        | 19,399                       | 1,600,913               |
| Federal .....   | 113,414                                 | 117,819                                  | 73,875                        | —                             | —                            | 73,875                  |
| State and Other   |   |  |                               |                               |                              |                         |
| Government .....  | 646,134                                 | 645,065                                  | —                             | —                             | —                            | —                       |
| Municipals .....  | —                                       | 2,328                                    | —                             | —                             | —                            | —                       |
| Cooperatives .....  | 49,114                                  | 51,477                                   | —                             | -19,331                       | —                            | -19,331                 |
| Other <sup>1</sup> .....  | 1,076,336                               | 1,058,730                                | —                             | —                             | -9,560                       | -9,560                  |
| Total .....   | 1,957,920                               | 1,960,723                                | 1,643,875                     | -7,817                        | 9,839                        | 1,645,897               |
| <b>Investor-Owned Utilities in WSCC</b>                         |   |  |                               |                               |                              |                         |
| Investor-Owned .....  | 3,776,421                               | 3,807,986                                | 1,260,000                     | -54,800                       | -23,425                      | 1,181,775               |
| Federal .....   | 16,597,879                              | 17,468,462                               | 3,653,393                     | 15,396,145                    | -34,433,329                  | -15,383,791             |
| State and Other   |   |  |                               |                               |                              |                         |
| Government .....  | 1,073,690                               | 974,703                                  | —                             | 7,556,226                     | -629,795                     | 6,926,431               |
| Municipals .....  | 506,142                                 | 598,297                                  | —                             | -81,584                       | -290,135                     | -371,719                |
| Cooperatives .....  | 133,545                                 | 79,181                                   | —                             | —                             | 265,639                      | 265,639                 |
| Other <sup>1</sup> .....  | 684,432                                 | 559,721                                  | —                             | 6,410,845                     | 38,046                       | 6,448,891               |
| Total .....   | 22,772,109                              | 23,488,350                               | 4,913,393                     | 29,226,832                    | -35,072,999                  | -932,774                |
| <b>Contiguous U.S. Total</b>                                    |   |  |                               |                               |                              |                         |
| Investor-Owned .....  | 22,854,705                              | 21,347,456                               | 2,830,000                     | 1,219,240                     | 10,758,187                   | 14,807,427              |
| Federal .....   | 16,806,813                              | 17,636,656                               | 3,727,268                     | 15,396,145                    | -34,330,634                  | -15,207,221             |
| State and Other   |   |  |                               |                               |                              |                         |
| Government .....  | 3,865,546                               | 4,703,961                                | 6,169,721                     | 7,556,226                     | 1,770,205                    | 15,496,152              |
| Municipals .....  | 3,448,819                               | 3,281,873                                | -693,801                      | 2,831,729                     | -292,063                     | 1,845,865               |
| Cooperatives .....  | 3,853,383                               | 3,485,668                                | -785,761                      | 4,582,119                     | 82,349                       | 3,878,707               |
| Other <sup>1</sup> .....  | 18,303,340                              | 19,028,343                               | —                             | 5,277,104                     | 1,045,878                    | 6,322,982               |
| Total .....   | 69,132,606                              | 69,483,957                               | 11,247,427                    | 36,862,563                    | -20,966,078                  | 27,143,912              |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

<sup>2</sup> Includes all transactions received from outside and within the region by all utilities operating within the region.

<sup>3</sup> Includes all transactions delivered out of and within the region by all utilities operating within the region.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •The terms of settlement may include transferring and/or exchanging quantities of electricity with no dollar value assigned. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

**Table 11. Noninvestor-Owned Utility Exchanges of Electricity, by NERC Region, 1996**  
(Million Kilowatthours)

| Exchanges with<br>Other Utilities | NERC Region of Noninvestor-Owned Utility |        |      |      |       |       |         |       |        | Contiguous<br>U.S.<br>Total |
|-----------------------------------|--|--------|------|------|-------|-------|---------|-------|--------|-----------------------------|
|                                   | ECAR                                     | ERCOT  | MAAC | MAIN | MAPP  | NPCC  | SERC    | SPP   | WSCC   |                             |
| <b>Federal</b>                    |  |        |      |      |       |       |         |       |        |                             |
| Received <sup>1</sup> .....       | —  | —      | —    | —    | —     | —     | 22,657  | 858   | 10,917 | 34,432                      |
| Delivered <sup>2</sup> .....      | —  | —      | —    | —    | —     | —     | 33,385  | 389   | 16,162 | 49,936                      |
| Net.....                          | —  | —      | —    | —    | —     | —     | -10,728 | 468   | -5,245 | -15,505                     |
| <b>State and Other</b>            |  |        |      |      |       |       |         |       |        |                             |
| <b>Government</b>                 |  |        |      |      |       |       |         |       |        |                             |
| Received <sup>1</sup> .....       | —  | —      | —    | —    | —     | 795   | 38      | 109   | 5,407  | 6,349                       |
| Delivered <sup>2</sup> .....      | —  | —      | —    | —    | —     | 310   | 46      | 21    | 2,791  | 3,168                       |
| Net.....                          | —  | —      | —    | —    | —     | 485   | -8      | 88    | 2,616  | 3,181                       |
| <b>Municipals</b>                 |  |        |      |      |       |       |         |       |        |                             |
| Received <sup>1</sup> .....       | 33                                       | 320    | 474  | —    | 25    | 1,633 | 1,163   | 439   | 9,006  | 13,093                      |
| Delivered <sup>2</sup> .....      | 80                                       | 282    | 22   | —    | 29    | 502   | 642     | 743   | 9,464  | 11,765                      |
| Net.....                          | -47                                      | 38     | 452  | —    | -5    | 1,130 | 521     | -304  | -457   | 1,328                       |
| <b>Cooperatives</b>               |  |        |      |      |       |       |         |       |        |                             |
| Received <sup>1</sup> .....       | 349                                      | 21,473 | —    | 133  | 2,216 | —     | 53      | 381   | 1,530  | 26,136                      |
| Delivered <sup>2</sup> .....      | 304                                      | 21,369 | —    | 190  | 2,348 | —     | 47      | 307   | 1,210  | 25,776                      |
| Net.....                          | 46                                       | 104    | —    | -57  | -133  | —     | 6       | 74    | 320    | 360                         |
| <b>Power</b>                      |  |        |      |      |       |       |         |       |        |                             |
| <b>Marketers</b>                  |  |        |      |      |       |       |         |       |        |                             |
| Received <sup>1</sup> .....       | 412                                      | 946    | —    | —    | —     | 181   | 370     | —     | 2      | 1,912                       |
| Delivered <sup>2</sup> .....      | 396                                      | 1,405  | —    | —    | —     | 122   | 8       | —     | 2      | 1,932                       |
| Net.....                          | 16                                       | -458   | —    | —    | —     | 60    | 362     | —     | —      | -20                         |
| <b>Region Total</b>               |  |        |      |      |       |       |         |       |        |                             |
| Received <sup>1</sup> .....       | 795                                      | 22,739 | 474  | 133  | 2,240 | 2,609 | 24,282  | 1,787 | 26,862 | 81,922                      |
| Delivered <sup>2</sup> .....      | 779                                      | 23,056 | 22   | 190  | 2,378 | 934   | 34,128  | 1,461 | 29,629 | 92,577                      |
| Net.....                          | 15                                       | -316   | 452  | -57  | -137  | 1,675 | -9,846  | 326   | -2,767 | -10,655                     |

<sup>1</sup> Includes all transactions received from outside and within the region by all utilities operating within the region.

<sup>2</sup> Includes all transactions delivered out of and within the region by all utilities operating within the region.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska System Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

**Table 12. Electricity Wheeling for All Ownership Classes by Investor-Owned Utilities, by NERC Region, 1996**

| Wheeling through Investor-Owned Utility Service Territories | NERC Region of Investor-Owned Utility |            |            |            |            |             |             |             |             | Contiguous U.S. Total |
|---|---------------------------------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-----------------------|
|   | ECAR                                  | ERCOT      | MAAC       | MAIN       | MAPP       | NPCC        | SERC        | SPP         | WSCC        |                       |
| <b>Investor-Owned</b>                                       |                                       |            |            |            |            |             |             |             |             |                       |
| <b>Wheeled Energy</b>                                       |                                       |            |            |            |            |             |             |             |             |                       |
| Rec. (thousand kWh)   | 21,875,056                            | 7,783,307  | 11,022,251 | 810,109    | 3,431,303  | 24,408,440  | 5,754,324   | 2,556,960   | 9,345,448   | 86,987,198            |
| Del. (thousand kWh)   | 21,825,507                            | 7,783,307  | 11,022,251 | 780,946    | 3,384,915  | 29,313,153  | 5,724,325   | 2,536,425   | 9,150,919   | 91,521,748            |
| <b>Revenue</b>  |                                       |            |            |            |            |             |             |             |             |                       |
| Demand (dollars)  | 27,005,021                            | 17,178,928 | 16,412,705 | 430,859    | 4,750,177  | 65,928,668  | 7,605,098   | 7,667,054   | 19,676,781  | 166,655,291           |
| Energy (dollars)  | 14,035,750                            | 31,495     | 6,055,457  | 1,107,657  | 1,266,857  | 15,369,650  | 682,727     | 2,552,219   | 9,574,281   | 50,676,093            |
| Other (dollars)   | 32,370,134                            | 2,797,595  | 11,019,621 | 380,349    | -1,050,918 | 33,183,313  | 5,548,305   | 290,354     | 1,584,749   | 86,123,502            |
| Total (dollars)   | 73,410,905                            | 20,008,018 | 33,487,783 | 1,918,865  | 4,966,116  | 114,481,631 | 13,836,130  | 10,509,627  | 30,835,811  | 303,454,886           |
| <b>Federal Authorities</b>                                  |                                       |            |            |            |            |             |             |             |             |                       |
| <b>Wheeled Energy</b>                                       |                                       |            |            |            |            |             |             |             |             |                       |
| Rec. (thousand kWh)   | 285,593                               | —          | —          | —          | 1,419,680  | —           | 4,009,444   | 100,225     | 17,536,897  | 23,351,839            |
| Del. (thousand kWh)   | 282,389                               | —          | —          | —          | 1,059,298  | —           | 2,850,758   | 100,153     | 17,253,840  | 21,546,438            |
| <b>Revenue</b>  |                                       |            |            |            |            |             |             |             |             |                       |
| Demand (dollars)  | 805,303                               | —          | —          | —          | 672,816    | —           | 10,510,815  | 104,978     | 52,959,124  | 65,053,036            |
| Energy (dollars)  | 65,004                                | —          | —          | —          | 495,057    | —           | 782,527     | 9,082       | 8,703,673   | 10,055,343            |
| Other (dollars)   | —                                     | —          | —          | -6,035     | —          | —           | 4,108,683   | 662,617     | 3,915,109   | 8,680,374             |
| Total (dollars)   | 870,307                               | —          | —          | -6,035     | 1,167,873  | —           | 15,402,025  | 776,677     | 65,577,906  | 83,788,753            |
| <b>State and Other</b>                                      |                                       |            |            |            |            |             |             |             |             |                       |
| <b>Government</b>   |                                       |            |            |            |            |             |             |             |             |                       |
| <b>Wheeled Energy</b>                                       |                                       |            |            |            |            |             |             |             |             |                       |
| Rec. (thousand kWh)   | 986,646                               | 181,511    | —          | —          | 1,187,682  | 2,896,410   | 391,700     | 2,952,184   | 21,149,227  | 29,745,360            |
| Del. (thousand kWh)   | 970,226                               | 181,511    | —          | —          | 1,133,296  | 12,600,287  | 376,249     | 2,946,552   | 20,648,258  | 38,856,379            |
| <b>Revenue</b>  |                                       |            |            |            |            |             |             |             |             |                       |
| Demand (dollars)  | 728,929                               | 745,114    | —          | —          | 416,052    | 21,754,059  | 1,293,981   | 7,874,506   | 31,781,534  | 64,594,175            |
| Energy (dollars)  | -23,056                               | 1,310      | —          | —          | 2,893,100  | 246,528,484 | 2,719       | 56,475      | 8,812,828   | 258,271,860           |
| Other (dollars)   | 1,241,645                             | 851,427    | —          | —          | 117,703    | 8,868,111   | -128,692    | 340,289     | 779,891     | 12,070,374            |
| Total (dollars)   | 1,947,518                             | 1,597,851  | —          | —          | 3,426,855  | 277,150,654 | 1,168,008   | 8,271,270   | 41,374,253  | 334,936,409           |
| <b>Municipals</b>   |                                       |            |            |            |            |             |             |             |             |                       |
| <b>Wheeled Energy</b>                                       |                                       |            |            |            |            |             |             |             |             |                       |
| Rec. (thousand kWh)   | 5,305,540                             | 3,192,869  | 832,784    | 3,073,786  | 1,856,646  | 6,921,681   | 4,441,599   | 2,595,410   | 13,145,523  | 41,365,838            |
| Del. (thousand kWh)   | 5,113,465                             | 3,191,311  | 832,784    | 3,018,790  | 2,181,648  | 6,967,167   | 4,117,907   | 2,595,410   | 12,940,460  | 40,958,942            |
| <b>Revenue</b>  |                                       |            |            |            |            |             |             |             |             |                       |
| Demand (dollars)  | 18,775,335                            | 3,907,772  | 4,731,867  | 10,256,498 | 5,192,606  | 12,118,332  | 26,606,630  | 7,508,767   | 38,270,806  | 127,368,613           |
| Energy (dollars)  | 2,680,262                             | 5,829      | 318,756    | 240,525    | 2,124,972  | 66,138      | 5,456,602   | 315,838     | 1,396,010   | 12,604,932            |
| Other (dollars)   | 3,512,160                             | 3,311,081  | 7,920      | 127,080    | 530,692    | 6,128,296   | -1,032,202  | 3,341       | 787,815     | 13,376,183            |
| Total (dollars)   | 24,967,757                            | 7,224,682  | 5,058,543  | 10,624,103 | 7,848,270  | 18,312,766  | 31,031,030  | 7,827,946   | 40,454,631  | 153,349,728           |
| <b>Cooperatives</b>   |                                       |            |            |            |            |             |             |             |             |                       |
| <b>Wheeled Energy</b>                                       |                                       |            |            |            |            |             |             |             |             |                       |
| Rec. (thousand kWh)   | 16,608,222                            | 2,374,184  | 3,830,028  | 1,624,143  | 6,698,341  | 416,026     | 11,534,247  | 13,139,088  | 4,479,452   | 60,703,731            |
| Del. (thousand kWh)   | 16,425,860                            | 2,374,184  | 3,740,859  | 1,568,274  | 6,678,954  | 402,216     | 11,389,878  | 13,129,459  | 4,459,653   | 60,169,337            |
| <b>Revenue</b>  |                                       |            |            |            |            |             |             |             |             |                       |
| Demand (dollars)  | 27,463,992                            | 11,138,699 | 14,240,765 | 10,161,045 | 8,988,204  | 1,268,495   | 35,803,873  | 37,352,484  | 10,352,951  | 156,770,508           |
| Energy (dollars)  | 1,333,548                             | 5,211      | —          | 7,685      | 3,722,346  | —           | 9,501,980   | 2,941,189   | 152,244     | 17,664,203            |
| Other (dollars)   | 9,617,287                             | 452,741    | —          | 2,500      | 407,135    | 423,283     | 8,832,496   | 14,764,871  | 1,431,748   | 35,932,061            |
| Total (dollars)   | 38,414,827                            | 11,596,651 | 14,240,765 | 10,171,230 | 13,117,685 | 1,691,778   | 54,138,349  | 55,058,544  | 11,936,943  | 210,366,772           |
| <b>Other<sup>1</sup></b>                                    |                                       |            |            |            |            |             |             |             |             |                       |
| <b>Wheeled Energy</b>                                       |                                       |            |            |            |            |             |             |             |             |                       |
| Rec. (thousand kWh)   | 10,442,036                            | 8,067,665  | 4,587,412  | 1,701,518  | 1,912,103  | 25,877,860  | 3,838,262   | 3,345,110   | 5,311,224   | 65,083,190            |
| Del. (thousand kWh)   | 10,581,269                            | 8,047,990  | 4,581,534  | 1,700,173  | 909,828    | 12,136,656  | 3,778,986   | 3,329,424   | 5,286,661   | 50,352,521            |
| <b>Revenue</b>  |                                       |            |            |            |            |             |             |             |             |                       |
| Demand (dollars)  | 16,017,531                            | 17,481,944 | 3,806,324  | 3,183,138  | 1,485,909  | 36,888,857  | 6,598,559   | 959,248     | 7,189,943   | 93,611,453            |
| Energy (dollars)  | 7,824,785                             | 73,914     | 6,399,174  | 3,124,162  | 1,597,787  | 11,214,144  | 2,579,769   | 5,203,292   | 7,734,924   | 45,751,951            |
| Other (dollars)   | 7,388,890                             | 3,690,084  | 7,484,312  | 990,029    | 2,426,945  | 115,713,770 | 3,004,934   | 25,491,628  | 4,311,143   | 170,501,735           |
| Total (dollars)   | 31,231,206                            | 21,245,942 | 17,689,810 | 7,297,329  | 5,510,641  | 163,816,771 | 12,183,262  | 31,654,168  | 19,236,010  | 309,865,139           |
| <b>Region Total</b>   |                                       |            |            |            |            |             |             |             |             |                       |
| <b>Wheeled Energy</b>                                       |                                       |            |            |            |            |             |             |             |             |                       |
| Rec. (thousand kWh)   | 55,503,093                            | 21,599,536 | 20,272,475 | 7,209,556  | 16,505,755 | 60,520,417  | 29,969,576  | 24,688,977  | 70,967,771  | 307,237,156           |
| Del. (thousand kWh)   | 55,198,716                            | 21,578,303 | 20,177,428 | 7,068,183  | 15,347,939 | 61,419,479  | 28,238,103  | 24,637,423  | 69,739,791  | 303,405,365           |
| <b>Revenue</b>  |                                       |            |            |            |            |             |             |             |             |                       |
| Demand (dollars)  | 90,796,111                            | 50,452,457 | 39,191,661 | 24,031,540 | 21,505,764 | 137,958,411 | 88,418,956  | 61,467,037  | 160,231,139 | 674,053,076           |
| Energy (dollars)  | 25,916,293                            | 117,759    | 12,773,387 | 4,480,029  | 12,100,119 | 273,178,416 | 19,006,324  | 11,078,095  | 36,373,960  | 395,024,382           |
| Other (dollars)   | 54,130,116                            | 11,102,928 | 18,511,853 | 1,493,923  | 2,431,557  | 164,316,773 | 20,333,524  | 41,553,100  | 12,810,455  | 326,684,229           |
| Total (dollars)   | 170,842,520                           | 61,673,144 | 70,476,901 | 30,005,492 | 36,037,440 | 575,453,600 | 127,758,804 | 114,098,232 | 209,415,554 | 1,395,761,687         |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •Wheeling (transmission services) is reported in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

**Table 13. Electricity Wheeling by All Ownership Classes to Investor-Owned Utilities, by NERC Region, 1996**

| Wheeling to Investor-Owned Utility Service Territories | NERC Region of Investor-Owned Utility |             |            |           |            |             |            |            |             | Contiguous U.S. Total |
|--|---------------------------------------|-------------|------------|-----------|------------|-------------|------------|------------|-------------|-----------------------|
|  | ECAR                                  | ERCOT       | MAAC       | MAIN      | MAPP       | NPCC        | SERC       | SPP        | WSCC        |                       |
| <b>Investor-Owned</b>                                  |                                       |             |            |           |            |             |            |            |             |                       |
| <b>Wheeled Energy</b>                                  |                                       |             |            |           |            |             |            |            |             |                       |
| Rec. (thousand kWh)                                    | —                                     | —           | —          | 2,215,066 | —          | 99,036      | —          | —          | 14,221,257  | 16,535,359            |
| Del. (thousand kWh)                                    | 7,749,504                             | 306,458     | 8,117,468  | 3,269,842 | 2,037,787  | 27,184,462  | 943,404    | 2,511,583  | 22,129,563  | 74,250,071            |
| <b>Cost</b>  |                                       |             |            |           |            |             |            |            |             |                       |
| Demand (dollars)                                       | 2,500,726                             | 13,348,474  | 144,643    | 1,528,482 | 2,153,409  | 62,222,196  | 289,038    | 8,247,465  | 29,614,211  | 120,048,644           |
| Energy (dollars)                                       | 75,727                                | —           | —          | 5,380,008 | 435,322    | 20,820,174  | 40,055     | 2,193,655  | 8,712,430   | 37,657,371            |
| Other (dollars)  | 19,884,970                            | 11,963,661  | 5,105,976  | 217,673   | 1,584,854  | 93,434,832  | 412,397    | 5,772,894  | 8,910,739   | 147,287,996           |
| Total (dollars)  | 22,461,423                            | 25,312,135  | 5,250,619  | 7,126,163 | 4,173,585  | 176,477,202 | 741,490    | 16,214,014 | 47,237,380  | 304,994,011           |
| <b>Federal Authorities</b>                             |                                       |             |            |           |            |             |            |            |             |                       |
| <b>Wheeled Energy</b>                                  |                                       |             |            |           |            |             |            |            |             |                       |
| Rec. (thousand kWh)                                    | 2,264                                 | —           | —          | —         | —          | —           | —          | —          | 9,048,866   | 9,051,130             |
| Del. (thousand kWh)                                    | 6,974                                 | —           | —          | —         | 926,452    | —           | —          | 832        | 43,505,882  | 44,440,140            |
| <b>Cost</b>  |                                       |             |            |           |            |             |            |            |             |                       |
| Demand (dollars)                                       | —                                     | —           | —          | —         | 22,534     | —           | —          | 1,200,000  | 67,495,162  | 68,717,696            |
| Energy (dollars)                                       | 4,528                                 | —           | —          | —         | 1,038,746  | —           | —          | 51,786     | 30,818,571  | 31,913,631            |
| Other (dollars)  | 483,968                               | —           | —          | 7,536     | —          | —           | 39,159     | 69,672     | 21,261,376  | 21,861,711            |
| Total (dollars)  | 488,496                               | —           | —          | 7,536     | 1,061,280  | —           | 39,159     | 1,321,458  | 119,575,109 | 122,493,038           |
| <b>State and Other</b>                                 |                                       |             |            |           |            |             |            |            |             |                       |
| <b>Government</b>                                      |                                       |             |            |           |            |             |            |            |             |                       |
| <b>Wheeled Energy</b>                                  |                                       |             |            |           |            |             |            |            |             |                       |
| Rec. (thousand kWh)                                    | —                                     | —           | —          | —         | —          | —           | —          | —          | 1,088,578   | 1,088,578             |
| Del. (thousand kWh)                                    | —                                     | 165,277     | —          | —         | 363,540    | 3,499,658   | 136,795    | 31,705     | 8,290,361   | 12,487,336            |
| <b>Cost</b>  |                                       |             |            |           |            |             |            |            |             |                       |
| Demand (dollars)                                       | —                                     | 486,512     | —          | —         | 1,783,148  | 4,408,982   | 826,260    | —          | 3,535,678   | 11,040,580            |
| Energy (dollars)                                       | —                                     | 972         | —          | —         | —          | 30,096,268  | —          | 56,239     | 1,051,836   | 31,205,315            |
| Other (dollars)  | -23,000                               | 769,176     | —          | —         | —          | 2,369,101   | 62,474     | 55,068     | -8,045      | 3,224,774             |
| Total (dollars)  | -23,000                               | 1,256,660   | —          | —         | 1,783,148  | 36,874,351  | 888,734    | 111,307    | 4,579,469   | 45,470,669            |
| <b>Municipals</b>                                      |                                       |             |            |           |            |             |            |            |             |                       |
| <b>Wheeled Energy</b>                                  |                                       |             |            |           |            |             |            |            |             |                       |
| Rec. (thousand kWh)                                    | —                                     | —           | —          | —         | —          | —           | —          | —          | 437,552     | 437,552               |
| Del. (thousand kWh)                                    | 619,593                               | 2,204,021   | —          | 3,161     | —          | 63,077      | 4,219,382  | 991        | 763,991     | 7,874,216             |
| <b>Cost</b>  |                                       |             |            |           |            |             |            |            |             |                       |
| Demand (dollars)                                       | —                                     | 1,242,628   | —          | —         | —          | 144,508     | 118,663    | 160,650    | 1,473,189   | 3,139,638             |
| Energy (dollars)                                       | —                                     | 2,439       | —          | —         | —          | 239,225     | —          | -15,866    | 876,685     | 1,102,483             |
| Other (dollars)  | 61,432                                | 588,800     | 17,010     | —         | —          | 926,506     | —          | 561,200    | -477,050    | 1,677,898             |
| Total (dollars)  | 61,432                                | 1,833,867   | 17,010     | —         | —          | 1,071,014   | 357,888    | 705,984    | 1,872,824   | 5,920,019             |
| <b>Cooperatives</b>                                    |                                       |             |            |           |            |             |            |            |             |                       |
| <b>Wheeled Energy</b>                                  |                                       |             |            |           |            |             |            |            |             |                       |
| Rec. (thousand kWh)                                    | 416,370                               | —           | —          | —         | —          | —           | —          | —          | 66,510      | 482,880               |
| Del. (thousand kWh)                                    | 926,902                               | 50,887      | —          | 246,974   | 515,120    | —           | 59,751     | 38,522     | 387,224     | 2,225,380             |
| <b>Cost</b>  |                                       |             |            |           |            |             |            |            |             |                       |
| Demand (dollars)                                       | 1,174,072                             | 41,661      | —          | —         | 277,340    | 2,022       | 177,946    | 749,661    | 1,817,473   | 4,240,175             |
| Energy (dollars)                                       | 3,625                                 | 512         | —          | 7,405     | 408,156    | —           | 1,339      | 50,301     | 2,447,573   | 2,918,911             |
| Other (dollars)  | 706,109                               | 13,142      | —          | —         | 530,045    | 1,188,069   | 9,816      | 364,324    | 2,096,422   | 4,907,927             |
| Total (dollars)  | 1,883,806                             | 55,315      | —          | 7,405     | 1,215,541  | 1,190,091   | 189,101    | 1,164,286  | 6,361,468   | 12,067,013            |
| <b>Other<sup>1</sup></b>                               |                                       |             |            |           |            |             |            |            |             |                       |
| <b>Wheeled Energy</b>                                  |                                       |             |            |           |            |             |            |            |             |                       |
| Rec. (thousand kWh)                                    | —                                     | —           | —          | 264,868   | —          | 185,622     | —          | 534,658    | 19,377,106  | 20,362,254            |
| Del. (thousand kWh)                                    | 8,207,502                             | 2,548,999   | —          | 264,824   | —          | 6,447,477   | 4,145,562  | 552,125    | 19,969,435  | 42,135,924            |
| <b>Cost</b>  |                                       |             |            |           |            |             |            |            |             |                       |
| Demand (dollars)                                       | 12,225                                | -12,457,348 | 15,166,638 | 421,177   | —          | 11,833,623  | 11,156,733 | 1,912,891  | 1,171,501   | 29,217,440            |
| Energy (dollars)                                       | 27,766                                | 8,604       | —          | 414,618   | 383,173    | 3,606,544   | 29,062     | 212,707    | 869,820     | 5,552,294             |
| Other (dollars)  | 400,075                               | 1,779,525   | 891,781    | -2,330    | 5,511,679  | 11,726,546  | -446,766   | 28,204,157 | 5,901,468   | 53,966,135            |
| Total (dollars)  | 440,066                               | -10,669,219 | 16,058,419 | 833,465   | 5,894,852  | 27,166,713  | 10,739,029 | 30,329,755 | 7,942,789   | 88,735,869            |
| <b>Region Total</b>                                    |                                       |             |            |           |            |             |            |            |             |                       |
| <b>Wheeled Energy</b>                                  |                                       |             |            |           |            |             |            |            |             |                       |
| Rec. (thousand kWh)                                    | 418,634                               | —           | —          | 2,479,934 | —          | 284,658     | —          | 534,658    | 44,239,869  | 47,957,753            |
| Del. (thousand kWh)                                    | 17,510,475                            | 5,275,642   | 8,117,468  | 3,784,801 | 3,842,899  | 37,194,674  | 9,504,894  | 3,135,758  | 95,046,456  | 183,413,067           |
| <b>Cost</b>  |                                       |             |            |           |            |             |            |            |             |                       |
| Demand (dollars)                                       | 3,687,023                             | 2,661,927   | 15,311,281 | 1,949,659 | 4,236,431  | 78,611,331  | 12,568,640 | 12,270,667 | 105,107,214 | 236,404,173           |
| Energy (dollars)                                       | 111,646                               | 12,527      | —          | 5,802,031 | 2,265,397  | 54,522,986  | 309,681    | 2,548,822  | 44,776,915  | 110,350,005           |
| Other (dollars)  | 21,513,554                            | 15,114,304  | 6,014,767  | 222,879   | 7,626,578  | 109,645,054 | 77,080     | 35,027,315 | 37,684,910  | 232,926,441           |
| Total (dollars)  | 25,312,223                            | 17,788,758  | 21,326,048 | 7,974,569 | 14,128,406 | 242,779,371 | 12,955,401 | 49,846,804 | 187,569,039 | 579,680,619           |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •Wheeling (transmission services) is reported in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. See glossary for a list of regions. Total quantity of wheeling may not be reported. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."



**Table 14. Purchases by Cooperative Borrowers, by NERC Region, 1996**

| Seller by Ownership Class     | NERC Region of Cooperatives |             |             |             |               |
|-------------------------------|-----------------------------|-------------|-------------|-------------|---------------|
|                               | ECAR                        | ERCOT       | MAAC        | MAIN        | MAPP          |
| <b>Investor-Owned</b>         |                             |             |             |             |               |
| Purchases (thousand kWh)..... | 3,459,119                   | 3,384,867   | 2,848,717   | 552,151     | 1,816,230     |
| Cost (dollars).....           | 108,629,675                 | 138,951,349 | 135,696,188 | 17,939,281  | 41,429,392    |
| <b>Federal Authorities</b>    |                             |             |             |             |               |
| Purchases (thousand kWh)..... | 5,308,130                   | 230,569     | —           | 41,350      | 4,217,334     |
| Cost (dollars).....           | 123,635,421                 | 4,928,671   | —           | 919,968     | 57,616,356    |
| <b>State and Other</b>        |                             |             |             |             |               |
| <b>Government</b>             |                             |             |             |             |               |
| Purchases (thousand kWh)..... | —                           | 725,350     | 461,911     | —           | 2,880,263     |
| Cost (dollars).....           | —                           | 28,281,007  | 3,116,770   | —           | 95,259,492    |
| <b>Municipals</b>             |                             |             |             |             |               |
| Purchases (thousand kWh)..... | 1,600,774                   | 27,476      | —           | —           | 170,369       |
| Cost (dollars).....           | 34,443,452                  | 518,622     | —           | 91,000      | 3,936,127     |
| <b>Cooperatives</b>           |                             |             |             |             |               |
| Purchases (thousand kWh)..... | 28,481,343                  | 8,763,691   | 3,647,719   | 8,613,562   | 24,939,303    |
| Cost (dollars).....           | 1,485,689,196               | 349,005,583 | 200,491,600 | 344,574,923 | 860,724,238   |
| <b>Other<sup>1</sup></b>      |                             |             |             |             |               |
| Purchases (thousand kWh)..... | 617,845                     | 1,661,132   | 416,868     | 114         | 2,276,483     |
| Cost (dollars).....           | 14,403,686                  | 46,939,886  | 20,158,842  | 10,111      | 53,414,568    |
| <b>Region Total</b>           |                             |             |             |             |               |
| Purchases (thousand kWh)..... | 39,467,211                  | 14,793,085  | 7,375,215   | 9,207,177   | 36,299,982    |
| Cost (dollars).....           | 1,766,801,430               | 568,625,118 | 359,463,400 | 363,535,283 | 1,112,380,173 |

  

| NERC Region of Cooperatives   |            |               |               |               | Contiguous U.S. Total |
|-------------------------------|------------|---------------|---------------|---------------|-----------------------|
| NPCC                          | SERC       | SPP           | WSCC          |               |                       |
| <b>Investor-Owned</b>         |            |               |               |               |                       |
| Purchases (thousand kWh)..... | 685,702    | 18,846,927    | 8,215,883     | 1,620,729     | 41,430,325            |
| Cost (dollars).....           | 53,281,024 | 822,685,232   | 283,865,049   | 60,017,033    | 1,662,494,223         |
| <b>Federal Authorities</b>    |            |               |               |               |                       |
| Purchases (thousand kWh)..... | —          | 33,647,634    | 3,423,479     | 9,058,350     | 55,926,846            |
| Cost (dollars).....           | —          | 1,403,177,323 | 60,889,387    | 221,424,781   | 1,872,591,907         |
| <b>State and Other</b>        |            |               |               |               |                       |
| <b>Government</b>             |            |               |               |               |                       |
| Purchases (thousand kWh)..... | 185,004    | 8,499,258     | 4,400,453     | 302,953       | 17,455,192            |
| Cost (dollars).....           | 3,397,005  | 319,132,053   | 103,232,009   | 7,662,085     | 560,080,421           |
| <b>Municipals</b>             |            |               |               |               |                       |
| Purchases (thousand kWh)..... | 9,510      | 224,443       | 4,057,128     | 152           | 6,089,852             |
| Cost (dollars).....           | 677,169    | 15,015,375    | 37,648,359    | 2,184         | 92,332,288            |
| <b>Cooperatives</b>           |            |               |               |               |                       |
| Purchases (thousand kWh)..... | —          | 63,316,834    | 43,068,363    | 15,928,599    | 196,759,414           |
| Cost (dollars).....           | —          | 2,947,291,726 | 1,633,959,615 | 626,365,896   | 8,448,102,777         |
| <b>Other<sup>1</sup></b>      |            |               |               |               |                       |
| Purchases (thousand kWh)..... | 110,586    | 2,493,771     | 1,965,472     | 5,327,160     | 14,869,431            |
| Cost (dollars).....           | 4,735,321  | 93,174,103    | 79,809,760    | 104,163,377   | 416,809,654           |
| <b>Region Total</b>           |            |               |               |               |                       |
| Purchases (thousand kWh)..... | 990,802    | 127,028,867   | 65,130,778    | 32,237,943    | 332,531,060           |
| Cost (dollars).....           | 62,090,519 | 5,600,475,812 | 2,199,404,179 | 1,019,635,356 | 13,052,411,270        |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Source: Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," RUS Form 12a through 12i, "Electric Power Supply Borrowers," Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities."

**Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1996**

| NERC Region of<br>Investor-Owned Utilities/<br>Type of Transaction | Source of Electricity from All Ownership Classes by NERC Region |                   |                          |                   |
|--|---|-------------------|--------------------------|-------------------|
|  | ECAR  |                   | ERCOT                    |                   |
|  | Energy<br>(thousand kWh)  | Cost<br>(dollars) | Energy<br>(thousand kWh) | Cost<br>(dollars) |
| <b>ECAR</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 50,077,566  | 1,774,691,104     | —                        | —                 |
| Nonfirm Purchases .....  | 51,092,368  | 1,064,132,206     | 462,742                  | 9,574,775         |
| Miscellaneous Purchases <sup>1</sup> .....                         | 10,143,510  | 307,165,617       | 12                       | —                 |
| Exchanges Received <sup>2</sup> .....                              | 510,343   | -374,075          | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | 416,370   | 20,611,831        | —                        | —                 |
| <b>ERCOT</b>   |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | 14,115,005               | 699,131,093       |
| Nonfirm Purchases .....  | —   | —                 | 18,332,767               | 412,316,782       |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 44,617                   | -68,891           |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 28,796,672               | 38,983            |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | 17,339,969        |
| <b>MAAC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 3,172,152   | 94,050,093        | —                        | —                 |
| Nonfirm Purchases .....  | 4,627,065   | 222,436,846       | 622,386                  | 12,575,326        |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | 51,453            | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | —                 |
| <b>MAIN</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 532,797   | 15,953,984        | 377,524                  | 8,146,791         |
| Nonfirm Purchases .....  | 1,799,716   | 44,094,441        | 207,872                  | 5,450,431         |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | 3,000             | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | 100   | 2,333             | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | 2,494   | 2,095,321         | —                        | —                 |
| <b>MAPP</b>  |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | —                        | —                 |
| Nonfirm Purchases .....  | 6,664   | 220,435           | 26,437                   | 794,764           |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | —                 |
| <b>NPCC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | —                        | —                 |
| Nonfirm Purchases .....  | 222,749   | 3,483,040         | 3,550                    | 205,895           |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | 55,966            | —                        | —                 |
| <b>SERC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 8,868,947   | 281,447,316       | 21,600                   | 478,260           |
| Nonfirm Purchases .....  | 238,308   | 3,576,019         | 687,541                  | 14,591,580        |
| Miscellaneous Purchases <sup>1</sup> .....                         | 10,400  | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | 24,888  | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | 138,701           | —                        | 1,825             |
| <b>SPP</b>   |   |                   |                          |                   |
| Firm Purchases .....   | 421,972   | 14,511,726        | —                        | —                 |
| Nonfirm Purchases .....  | 6,405   | 108,611           | 1,791,088                | 37,248,584        |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 35,478                   | 373,877           |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | 9,533,903         |
| <b>WSCC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 13  | 307               | —                        | —                 |
| Nonfirm Purchases .....  | 89,751  | 1,350,961         | 1,232,752                | 17,968,080        |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 22                       | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 23,838                   | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | 96                       | 96                |
| <b>Region Total</b>  |   |                   |                          |                   |
| Firm Purchases Deliveries.....                                     | 63,073,447  | 2,180,654,530     | 14,514,129               | 707,756,144       |
| Nonfirm Purchases Deliveries.....                                  | 58,083,026  | 1,339,402,559     | 23,367,135               | 510,726,217       |
| Misc Purchases Deliveries <sup>1</sup> .....                       | 10,153,910  | 307,220,070       | 80,129                   | 304,986           |
| Exchanges Received Deliveries <sup>2</sup> .....                   | 535,331   | -371,742          | 28,820,510               | 38,983            |
| Wheeling By Others Deliveries <sup>3</sup> .....                   | 418,864   | 22,901,819        | 96                       | 26,875,793        |

See notes and footnotes at end of table.

**Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1996**  
(Continued)

| NERC Region of<br>Investor-Owned Utilities/<br>Type of Transaction | Source of Electricity from All Ownership Classes by NERC Region |                   |                          |                   |
|--|---|-------------------|--------------------------|-------------------|
|  | MAAC  |                   | MAIN                     |                   |
|  | Energy<br>(thousand kWh)  | Cost<br>(dollars) | Energy<br>(thousand kWh) | Cost<br>(dollars) |
| <b>ECAR</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 533,279   | 10,343,852        | 1,615,736                | 33,119,380        |
| Nonfirm Purchases .....  | 2,696,083   | 60,789,568        | 1,228,746                | 19,025,922        |
| Miscellaneous Purchases <sup>1</sup> .....                         | 229,579   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | 566,129           | —                        | —                 |
| <b>ERCOT</b>   |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | —                        | —                 |
| Nonfirm Purchases .....  | —   | —                 | —                        | —                 |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | —                 |
| <b>MAAC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 11,416,230  | 435,537,212       | 43,034                   | 1,676,153         |
| Nonfirm Purchases .....  | 63,857,417  | 2,148,479,472     | 6,105,635                | 105,170,479       |
| Miscellaneous Purchases <sup>1</sup> .....                         | 1,579,665   | 71,590,552        | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | 21,309,038        | —                        | —                 |
| <b>MAIN</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 475,210   | 14,217,826        | 7,748,124                | 233,841,585       |
| Nonfirm Purchases .....  | 52,092  | 1,649,808         | 11,606,254               | 222,160,545       |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 114,894                  | -127,226          |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 118,685                  | -850,481          |
| Wheeling By Others <sup>3</sup> .....                              | —   | 509,006           | 404,942                  | 1,796,466         |
| <b>MAPP</b>  |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | 565,733                  | 23,735,052        |
| Nonfirm Purchases .....  | —   | —                 | 837,811                  | 20,255,741        |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | 312,799           |
| <b>NPCC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 3,819,758   | 289,760,796       | —                        | —                 |
| Nonfirm Purchases .....  | 6,840,196   | 159,081,640       | —                        | —                 |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | 3,402,990         | —                        | —                 |
| <b>SERC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 2,516,491   | 55,592,141        | 404,290                  | 14,752,745        |
| Nonfirm Purchases .....  | 606,662   | 11,762,144        | 69,399                   | 867,732           |
| Miscellaneous Purchases <sup>1</sup> .....                         | 990   | —                 | 44,898                   | —                 |
| Exchanges Received <sup>2</sup> .....                              | 226,200   | -1,027,064        | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | 150,318           | —                        | —                 |
| <b>SPP</b>   |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | 311,890                  | 12,134,329        |
| Nonfirm Purchases .....  | 19,484  | 427,639           | 2,986,472                | 51,485,212        |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 2,700                    | 16,005            |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | 16,842            |
| <b>WSCC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 381,412   | 16,933,536        | 457,280                  | 8,275,549         |
| Nonfirm Purchases .....  | 49,260  | 1,098,240         | 478,727                  | 7,837,884         |
| Miscellaneous Purchases <sup>1</sup> .....                         | 800   | —                 | 130                      | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | —                 |
| <b>Region Total</b>  |   |                   |                          |                   |
| Firm Purchases Deliveries.....                                     | 19,142,380  | 822,385,363       | 11,146,087               | 327,534,793       |
| Nonfirm Purchases Deliveries.....                                  | 74,121,194  | 2,383,288,511     | 23,313,044               | 426,803,515       |
| Misc Purchases Deliveries <sup>1</sup> .....                       | 1,811,034   | 71,590,552        | 159,922                  | -127,226          |
| Exchanges Received Deliveries <sup>2</sup> .....                   | 226,200   | -1,027,064        | 121,385                  | -834,476          |
| Wheeling By Others Deliveries <sup>3</sup> .....                   | —   | 25,937,481        | 404,942                  | 2,126,107         |

See notes and footnotes at end of table.

**Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1996**  
(Continued)

| NERC Region of<br>Investor-Owned Utilities/<br>Type of Transaction | Source of Electricity from All Ownership Classes by NERC Region |                   |                          |                   |
|--|---|-------------------|--------------------------|-------------------|
|  | MAPP  |                   | NPCC                     |                   |
|  | Energy<br>(thousand kWh)  | Cost<br>(dollars) | Energy<br>(thousand kWh) | Cost<br>(dollars) |
| <b>ECAR</b>  |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | 1,993,460                | 52,970,207        |
| Nonfirm Purchases .....  | 800   | 13,600            | 82,654                   | 3,291,844         |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | 2,425             |
| <b>ERCOT</b>   |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | —                        | —                 |
| Nonfirm Purchases .....  | —   | —                 | —                        | —                 |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | —                 |
| <b>MAAC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 4,870,951   | 304,228,087       | 2,028,223                | 85,325,725        |
| Nonfirm Purchases .....  | 59,974  | 1,227,004         | 2,274,337                | 102,929,745       |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | -28,000                  | 179,890           |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | 17,010            | —                        | —                 |
| <b>MAIN</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 3,873,907   | 64,669,314        | —                        | —                 |
| Nonfirm Purchases .....  | 3,884,727   | 58,727,808        | —                        | —                 |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | 2,072,498   | 2,991,494         | —                        | —                 |
| <b>MAPP</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 14,859,426  | 391,631,724       | 239,138                  | 5,173,126         |
| Nonfirm Purchases .....  | 9,038,753   | 193,127,546       | 472                      | 7,593             |
| Miscellaneous Purchases <sup>1</sup> .....                         | 5,317,918   | 216,584,966       | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | 177,626   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | 12,752,947        | —                        | —                 |
| <b>NPCC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | 86,281,627               | 4,384,833,214     |
| Nonfirm Purchases .....  | —   | —                 | 88,501,910               | 4,180,889,157     |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 20,937                   | 22,222,047        |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 1,058,581                | 21,270,076        |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | 284,658                  | 239,320,415       |
| <b>SERC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 77,951  | 4,826,403         | 875,881                  | 44,777,342        |
| Nonfirm Purchases .....  | 5,345   | 107,990           | 108,138                  | 2,595,162         |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | —                 |
| <b>SPP</b>   |   |                   |                          |                   |
| Firm Purchases .....   | 307,265   | 6,022,091         | —                        | —                 |
| Nonfirm Purchases .....  | 1,526,165   | 22,750,612        | 11                       | 194               |
| Miscellaneous Purchases <sup>1</sup> .....                         | 10,812  | 1,010,408         | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | 70,864            | —                        | —                 |
| <b>WSCC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 102,365   | 3,513,563         | 350,543                  | 14,699,462        |
| Nonfirm Purchases .....  | 102,352   | 1,829,531         | 153,375                  | 3,471,722         |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | -53,318           |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | —                 |
| <b>Region Total</b>  |   |                   |                          |                   |
| Firm Purchases Deliveries.....                                     | 24,091,865  | 774,891,182       | 91,768,872               | 4,587,779,076     |
| Nonfirm Purchases Deliveries.....                                  | 14,618,116  | 277,784,091       | 91,120,897               | 4,293,185,417     |
| Misc Purchases Deliveries <sup>1</sup> .....                       | 5,328,730   | 217,595,374       | -7,063                   | 22,348,619        |
| Exchanges Received Deliveries <sup>2</sup> .....                   | 177,626   | —                 | 1,058,581                | 21,270,076        |
| Wheeling By Others Deliveries <sup>3</sup> .....                   | 2,072,498   | 15,832,315        | 284,658                  | 239,322,840       |

See notes and footnotes at end of table.

**Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1996**  
(Continued)

| NERC Region of<br>Investor-Owned Utilities/<br>Type of Transaction | Source of Electricity from All Ownership Classes by NERC Region |                   |                          |                   |
|--|---|-------------------|--------------------------|-------------------|
|  | SERC  |                   | SPP                      |                   |
|  | Energy<br>(thousand kWh)  | Cost<br>(dollars) | Energy<br>(thousand kWh) | Cost<br>(dollars) |
| <b>ECAR</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 206,492   | 5,578,701         | 7,440                    | 240,472           |
| Nonfirm Purchases .....  | 1,545,899   | 37,408,839        | 4,156                    | 146,785           |
| Miscellaneous Purchases <sup>1</sup> .....                         | 651   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | 468,019   | 599,068           | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | 2,264   | 4,123,723         | —                        | 8,115             |
| <b>ERCOT</b>   |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | —                        | 1,084,720         |
| Nonfirm Purchases .....  | —   | —                 | 1,322,285                | 28,681,305        |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 4,764,057                | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | 448,789           |
| <b>MAAC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 348,839   | 10,253,266        | —                        | —                 |
| Nonfirm Purchases .....  | 8,311,396   | 178,431,398       | —                        | —                 |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | -55,195           | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | —                 |
| <b>MAIN</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 1,095,801   | 28,501,143        | 2,976,142                | 65,439,569        |
| Nonfirm Purchases .....  | 1,164,439   | 27,313,456        | 115,614                  | 2,401,904         |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | 2,123             | —                        | 580,159           |
| <b>MAPP</b>  |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | —                        | —                 |
| Nonfirm Purchases .....  | 25,993  | 723,898           | 464,572                  | 12,638,962        |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | —                 |
| <b>NPCC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | 62,400                   | 1,431,871         |
| Nonfirm Purchases .....  | —   | —                 | 105                      | 2,205             |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | —                 |
| <b>SERC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 46,016,473  | 2,637,217,636     | 8,364                    | 255,702           |
| Nonfirm Purchases .....  | 29,815,320  | 711,922,955       | 373,294                  | 10,049,774        |
| Miscellaneous Purchases <sup>1</sup> .....                         | 132,855   | —                 | —                        | —                 |
| Exchanges Received <sup>2</sup> .....                              | 8,185,351   | 6,669,254         | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | 12,649,247        | —                        | 15,310            |
| <b>SPP</b>   |   |                   |                          |                   |
| Firm Purchases .....   | 8,127,820   | 657,989,950       | 1,681,041                | 67,266,285        |
| Nonfirm Purchases .....  | 8,751,979   | 184,478,593       | 37,679,767               | 1,089,665,553     |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 1,946,427                | 14,895,768        |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 1,955,220                | 1,629,892         |
| Wheeling By Others <sup>3</sup> .....                              | —   | 3,810,589         | 534,658                  | 35,939,299        |
| <b>WSCC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | 435,461                  | 29,764,851        |
| Nonfirm Purchases .....  | 82,680  | 1,306,258         | 342,490                  | 6,290,555         |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | —                        | 392               |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 1,284                    | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | 170,533           |
| <b>Region Total</b>  |   |                   |                          |                   |
| Firm Purchases Deliveries.....                                     | 55,795,425  | 3,339,540,696     | 5,170,848                | 165,483,470       |
| Nonfirm Purchases Deliveries.....                                  | 49,697,706  | 1,141,585,397     | 40,302,283               | 1,149,877,043     |
| Misc Purchases Deliveries <sup>1</sup> .....                       | 133,506   | -55,195           | 1,946,427                | 14,896,160        |
| Exchanges Received Deliveries <sup>2</sup> .....                   | 8,653,370   | 7,268,322         | 6,720,561                | 1,629,892         |
| Wheeling By Others Deliveries <sup>3</sup> .....                   | 2,264   | 20,585,682        | 534,658                  | 37,162,205        |

See notes and footnotes at end of table.

**Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1996**  
(Continued)

| NERC Region of<br>Investor-Owned Utilities/<br>Type of Transaction | Source of Electricity from All Ownership Classes by NERC Region |                   |                          |                   |
|--|---|-------------------|--------------------------|-------------------|
|  | WSCC  |                   | Contiguous U.S. Total    |                   |
|  | Energy<br>(thousand kWh)  | Cost<br>(dollars) | Energy<br>(thousand kWh) | Cost<br>(dollars) |
| <b>ECAR</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 15,554  | 842,151           | 54,449,527               | 1,877,785,867     |
| Nonfirm Purchases .....  | 10,496  | 482,838           | 57,123,944               | 1,194,866,377     |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 10,373,752               | 307,165,617       |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 978,362                  | 224,993           |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | 418,634                  | 25,312,223        |
| <b>ERCOT</b>   |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | 14,115,005               | 700,215,813       |
| Nonfirm Purchases .....  | 59,683  | 1,298,384         | 19,714,735               | 442,296,471       |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 44,617                   | -68,891           |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 33,560,729               | 38,983            |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | 17,788,758        |
| <b>MAAC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 47,705  | 973,416           | 21,927,134               | 932,043,952       |
| Nonfirm Purchases .....  | 377,235   | 23,366,738        | 86,235,445               | 2,794,617,008     |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 1,551,665                | 71,766,700        |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | —                        | —                 |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | 21,326,048        |
| <b>MAIN</b>  |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | 17,079,505               | 430,770,212       |
| Nonfirm Purchases .....  | 1,868,914   | 26,979,860        | 20,699,628               | 388,778,253       |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 114,894                  | -124,226          |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 118,785                  | -848,148          |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | 2,479,934                | 7,974,569         |
| <b>MAPP</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 1,165,837   | 31,240,258        | 16,830,134               | 451,780,160       |
| Nonfirm Purchases .....  | 3,779,482   | 48,465,072        | 14,180,184               | 276,234,011       |
| Miscellaneous Purchases <sup>1</sup> .....                         | -55,656   | —                 | 5,262,262                | 216,584,966       |
| Exchanges Received <sup>2</sup> .....                              | 72,055  | 102,695           | 249,681                  | 102,695           |
| Wheeling By Others <sup>3</sup> .....                              | —   | 1,062,660         | —                        | 14,128,406        |
| <b>NPCC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | —   | —                 | 90,163,785               | 4,676,025,881     |
| Nonfirm Purchases .....  | 127,666   | 11,211,099        | 95,696,176               | 4,354,873,036     |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 20,937                   | 22,222,047        |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 1,058,581                | 21,270,076        |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | 284,658                  | 242,779,371       |
| <b>SERC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 2,064,675   | 84,678,579        | 60,854,672               | 3,124,026,124     |
| Nonfirm Purchases .....  | 38,884  | 760,084           | 31,942,891               | 756,233,440       |
| Miscellaneous Purchases <sup>1</sup> .....                         | —   | —                 | 189,143                  | —                 |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 8,436,439                | 5,642,190         |
| Wheeling By Others <sup>3</sup> .....                              | —   | —                 | —                        | 12,955,401        |
| <b>SPP</b>   |   |                   |                          |                   |
| Firm Purchases .....   | 477,793   | 24,958,559        | 11,327,781               | 782,882,940       |
| Nonfirm Purchases .....  | 1,111,593   | 20,950,540        | 53,872,964               | 1,407,115,538     |
| Miscellaneous Purchases <sup>1</sup> .....                         | 430,439   | 5,572,030         | 2,423,156                | 21,852,083        |
| Exchanges Received <sup>2</sup> .....                              | —   | —                 | 1,957,920                | 1,645,897         |
| Wheeling By Others <sup>3</sup> .....                              | —   | 475,307           | 534,658                  | 49,846,804        |
| <b>WSCC</b>  |   |                   |                          |                   |
| Firm Purchases .....   | 78,383,580  | 5,558,165,155     | 80,110,654               | 5,631,352,423     |
| Nonfirm Purchases .....  | 114,365,089   | 1,941,410,957     | 116,896,476              | 1,982,564,188     |
| Miscellaneous Purchases <sup>1</sup> .....                         | 3,186,157   | -34,311,108       | 3,187,109                | -34,364,034       |
| Exchanges Received <sup>2</sup> .....                              | 22,746,987  | -932,774          | 22,772,109               | -932,774          |
| Wheeling By Others <sup>3</sup> .....                              | 44,239,773  | 187,398,410       | 44,239,869               | 187,569,039       |
| <b>Region Total</b>  |   |                   |                          |                   |
| Firm Purchases Deliveries.....                                     | 82,155,144  | 5,700,858,118     | 366,858,197              | 18,606,883,372    |
| Nonfirm Purchases Deliveries.....                                  | 121,739,042   | 2,074,925,572     | 496,362,443              | 13,597,578,322    |
| Misc Purchases Deliveries <sup>1</sup> .....                       | 3,560,940   | -28,739,078       | 23,167,535               | 605,034,262       |
| Exchanges Received Deliveries <sup>2</sup> .....                   | 22,819,042  | -830,079          | 69,132,606               | 27,143,912        |
| Wheeling By Others Deliveries <sup>3</sup> .....                   | 44,239,773  | 188,936,377       | 47,957,753               | 579,680,619       |

<sup>1</sup> Miscellaneous purchases include other transactions involving line and substation rentals, system support charges, and special contract transactions.

<sup>2</sup> Reported as Power Exchange in account 555, "Purchased Power Transactions," of the FERC Uniform System of Accounts.

<sup>3</sup> Reported as transmission services in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. Total quantity of wheeling may not be reported.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •The isolated service territories of the same utility are assigned one NERC Region identification. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others."

•FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

**Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1996**

| NERC Region of<br>Investor-Owned Utilities/<br>Type of Transaction | Destination of Electricity to All Ownership Classes by NERC Region |                      |                          |                      |
|--|--|----------------------|--------------------------|----------------------|
|  | ECAR   |                      | ERCOT                    |                      |
|  | Energy<br>(thousand kWh)   | Revenue<br>(dollars) | Energy<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>ECAR</b>  |  |                      |                          |                      |
| Firm Sales.....  | 62,704,322   | 1,642,818,744        | 347,629                  | 7,009,165            |
| Nonfirm Sales.....   | 57,031,895   | 1,209,720,109        | 453,542                  | 10,302,502           |
| Miscellaneous Sales <sup>1</sup> .....                             | 4,635,116  | 176,349,000          | 1,376,669                | 11,214,563           |
| Exchanges Delivered <sup>2</sup> .....                             | 544,581  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 32,789,310   | 103,852,901          | 362,430                  | 1,263,376            |
| <b>ERCOT</b>   |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 6,889,809                | 296,120,861          |
| Nonfirm Sales.....   | —  | —                    | 2,630,318                | 72,432,906           |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | 580                      | 1,148,584            |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 29,753,391               | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | 11,318               | 17,980,790               | 44,515,239           |
| <b>MAAC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 1,700,443  | 36,840,608           | 72,710                   | 2,177,540            |
| Nonfirm Sales.....   | 35,999   | 1,348,568            | 173,794                  | 4,499,827            |
| Miscellaneous Sales <sup>1</sup> .....                             | 1,386,051  | 30,996,045           | 36,315                   | 833,180              |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 3,411,406  | 2,237,439            | 36,977                   | 84,698               |
| <b>MAIN</b>  |  |                      |                          |                      |
| Firm Sales.....  | 2,129,834  | 48,379,616           | 234,556                  | 5,267,361            |
| Nonfirm Sales.....   | 1,226,394  | 19,631,794           | 335,767                  | 7,029,115            |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 91,982   | 134,045              | 215,796                  | 428,665              |
| <b>MAPP</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | —                        | —                    |
| Nonfirm Sales.....   | 7,375  | 136,726              | 48,708                   | 815,626              |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 13,687                   | 24,161               |
| <b>NPCC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 7,445  | 147,627              | 1,500                    | 28,500               |
| Nonfirm Sales.....   | 196,465  | 5,019,563            | 2,172                    | 46,936               |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 76,414   | 186,110              | 808                      | 3,555                |
| <b>SERC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 800,063  | 19,613,639           | 43,568                   | 1,147,606            |
| Nonfirm Sales.....   | 178,071  | 3,894,317            | 197,961                  | 4,322,082            |
| Miscellaneous Sales <sup>1</sup> .....                             | 800  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | 24,195   | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 1,007,255  | 2,257,775            | 238,328                  | 577,951              |
| <b>SPP</b>   |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 2,245,623                | 85,837,473           |
| Nonfirm Sales.....   | 110,735  | 1,738,088            | 1,818,421                | 40,048,576           |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | 9,464                    | 272,350              |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 205,671  | 308,786              | 561,071                  | 5,081,692            |
| <b>WSCC</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | 4,500                | 335,814                  | 14,389,329           |
| Nonfirm Sales.....   | 78,186   | 1,246,067            | 2,389,242                | 37,714,356           |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 6,620                    | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 190,000                  | 213,068              |
| <b>Region Total</b>  |  |                      |                          |                      |
| Firm Sales Receipts.....   | 67,342,107   | 1,747,804,734        | 10,171,209               | 411,977,835          |
| Nonfirm Sales Receipts.....  | 58,865,120   | 1,242,735,232        | 8,049,925                | 177,211,926          |
| Miscellaneous Sales Receipts <sup>1</sup> .....                    | 6,021,967  | 207,345,045          | 1,423,028                | 13,468,677           |
| Exchanges Delivered Receipts <sup>2</sup> .....                    | 568,776  | —                    | 29,760,011               | —                    |
| Wheeling For Others Receipts <sup>3</sup> .....                    | 37,582,038   | 108,988,374          | 19,599,887               | 52,192,405           |

See notes and footnotes at end of table.

**Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1996**  
(Continued)

| NERC Region of<br>Investor-Owned Utilities/<br>Type of Transaction | Destination of Electricity to All Ownership Classes by NERC Region |                      |                          |                      |
|--|--|----------------------|--------------------------|----------------------|
|  | MAAC   |                      | MAIN                     |                      |
|  | Energy<br>(thousand kWh)   | Revenue<br>(dollars) | Energy<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>ECAR</b>  |  |                      |                          |                      |
| Firm Sales.....  | 7,567,596  | 265,993,656          | 985,645                  | 21,892,125           |
| Nonfirm Sales.....   | 4,116,020  | 86,180,893           | 1,470,115                | 39,607,418           |
| Miscellaneous Sales <sup>1</sup> .....                             | 131,702  | 973,524              | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 100                      | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 15,058,872   | 41,884,762           | 800,128                  | 2,727,294            |
| <b>ERCOT</b>   |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | —                        | —                    |
| Nonfirm Sales.....   | —  | —                    | —                        | —                    |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | —                        | —                    |
| <b>MAAC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 20,146,272   | 651,121,324          | 1,168,914                | 31,603,280           |
| Nonfirm Sales.....   | 28,924,190   | 758,540,454          | 30,119                   | 1,030,126            |
| Miscellaneous Sales <sup>1</sup> .....                             | 5,499,350  | 134,006,107          | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 14,244,270   | 60,484,956           | —                        | —                    |
| <b>MAIN</b>  |  |                      |                          |                      |
| Firm Sales.....  | 1,525  | 34,058               | 20,683,244               | 635,666,649          |
| Nonfirm Sales.....   | 5,768,989  | 89,290,395           | 12,436,971               | 187,606,197          |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | 1,551                    | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 140,115                  | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 6,145,151                | 28,747,641           |
| <b>MAPP</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 4,159,548                | 70,145,213           |
| Nonfirm Sales.....   | —  | —                    | 2,566,721                | 35,812,507           |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 2,151,255                | 4,976,487            |
| <b>NPCC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 1,457,258  | 71,380,098           | —                        | —                    |
| Nonfirm Sales.....   | 286,641  | 10,344,330           | —                        | —                    |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 303,446  | 1,115,588            | —                        | —                    |
| <b>SERC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 3,815,216  | 82,828,387           | 179,308                  | 4,572,789            |
| Nonfirm Sales.....   | 2,102,544  | 40,879,624           | 193,870                  | 4,262,304            |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | 3,200                    | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | 234,900  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 3,653,339  | 3,634,807            | —                        | 53,594               |
| <b>SPP</b>   |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 1,461,630                | 36,707,744           |
| Nonfirm Sales.....   | —  | —                    | 1,378,838                | 23,443,379           |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 1,380                    | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 327,204                  | 866,912              |
| <b>WSCC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 128,332  | 2,716,065            | —                        | 20,700               |
| Nonfirm Sales.....   | 254,083  | 4,092,768            | 677,023                  | 8,880,697            |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | 12                   | 59,789                   | 253,407              |
| <b>Region Total</b>  |  |                      |                          |                      |
| Firm Sales Receipts.....   | 33,116,199   | 1,074,073,588        | 28,638,289               | 800,608,500          |
| Nonfirm Sales Receipts.....  | 41,452,467   | 989,328,464          | 18,753,657               | 300,642,628          |
| Miscellaneous Sales Receipts <sup>1</sup> .....                    | 5,631,052  | 134,979,631          | 4,751                    | —                    |
| Exchanges Delivered Receipts <sup>2</sup> .....                    | 234,900  | —                    | 141,595                  | —                    |
| Wheeling For Others Receipts <sup>3</sup> .....                    | 33,259,927   | 107,120,125          | 9,483,527                | 37,625,335           |

See notes and footnotes at end of table.



**Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1996**  
(Continued)

| NERC Region of<br>Investor-Owned Utilities/<br>Type of Transaction | Destination of Electricity to All Ownership Classes by NERC Region |                      |                          |                      |
|--|--|----------------------|--------------------------|----------------------|
|  | MAPP   |                      | NPCC                     |                      |
|  | Energy<br>(thousand kWh)   | Revenue<br>(dollars) | Energy<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>ECAR</b>  |  |                      |                          |                      |
| Firm Sales.....  | 67,200   | 1,357,440            | 215,380                  | 3,482,279            |
| Nonfirm Sales.....   | 644  | 9,055                | 42,281                   | 1,043,377            |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 11,150                   | -31,109              |
| <b>ERCOT</b>   |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | —                        | —                    |
| Nonfirm Sales.....   | —  | —                    | —                        | —                    |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 155,836                  | 143,562              |
| <b>MAAC</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 3,399,305                | 77,154,026           |
| Nonfirm Sales.....   | 101,775  | 2,262,124            | 2,663,275                | 59,856,694           |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 1,359,037                | 4,039,138            |
| <b>MAIN</b>  |  |                      |                          |                      |
| Firm Sales.....  | 1,331,977  | 46,413,322           | —                        | —                    |
| Nonfirm Sales.....   | 720,965  | 17,314,411           | 1,250                    | 24,250               |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 53,011   | 206,297              | —                        | —                    |
| <b>MAPP</b>  |  |                      |                          |                      |
| Firm Sales.....  | 4,975,170  | 150,526,417          | —                        | —                    |
| Nonfirm Sales.....   | 4,603,218  | 77,749,606           | 68,233                   | 752,973              |
| Miscellaneous Sales <sup>1</sup> .....                             | 5,720,737  | 173,349,295          | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | 38,803   | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 11,244,646   | 28,979,139           | —                        | —                    |
| <b>NPCC</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 48,850,867               | 2,756,937,094        |
| Nonfirm Sales.....   | —  | —                    | 50,983,608               | 1,657,676,217        |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | 3,979,371                | 202,369,598          |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 754,753                  | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 61,038,654               | 574,148,037          |
| <b>SERC</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 6,170                    | 169,709              |
| Nonfirm Sales.....   | —  | —                    | —                        | —                    |
| Miscellaneous Sales <sup>1</sup> .....                             | 16,800   | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | —                        | —                    |
| <b>SPP</b>   |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | —                        | —                    |
| Nonfirm Sales.....   | 158,618  | 3,882,031            | —                        | —                    |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 203,582  | 112,558              | —                        | —                    |
| <b>WSCC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 237,681  | 7,169,980            | 1,123,877                | 47,815,880           |
| Nonfirm Sales.....   | 167,475  | 2,526,832            | 148,633                  | 2,500,881            |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | 232                  | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 38,758   | 257,400              | 180                      | 6,970                |
| <b>Region Total</b>  |  |                      |                          |                      |
| Firm Sales Receipts.....   | 6,612,028  | 205,467,159          | 53,595,599               | 2,885,558,988        |
| Nonfirm Sales Receipts.....  | 5,752,695  | 103,744,059          | 53,907,280               | 1,721,854,392        |
| Miscellaneous Sales Receipts <sup>1</sup> .....                    | 5,737,537  | 173,349,527          | 3,979,371                | 202,369,598          |
| Exchanges Delivered Receipts <sup>2</sup> .....                    | 38,803   | —                    | 754,753                  | —                    |
| Wheeling For Others Receipts <sup>3</sup> .....                    | 11,539,997   | 29,555,394           | 62,564,857               | 578,306,598          |

See notes and footnotes at end of table.

**Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1996**  
(Continued)

| NERC Region of<br>Investor-Owned Utilities/<br>Type of Transaction | Destination of Electricity to All Ownership Classes by NERC Region |                      |                          |                      |
|--|--|----------------------|--------------------------|----------------------|
|  | SERC   |                      | SPP                      |                      |
|  | Energy<br>(thousand kWh)   | Revenue<br>(dollars) | Energy<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>ECAR</b>  |  |                      |                          |                      |
| Firm Sales.....  | 8,397,902  | 234,080,548          | 424,729                  | 14,405,473           |
| Nonfirm Sales.....   | 1,982,175  | 47,144,045           | 234,908                  | 4,473,708            |
| Miscellaneous Sales <sup>1</sup> .....                             | 629,846  | 9,288,788            | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | 452,180  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 6,176,826  | 21,145,296           | —                        | —                    |
| <b>ERCOT</b>   |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 1,137,905                | 67,726,050           |
| Nonfirm Sales.....   | —  | —                    | 159,157                  | 3,966,029            |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | 1,115                |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 3,826,020                | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 3,441,677                | 17,003,025           |
| <b>MAAC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 3,212,570  | 71,797,184           | 118,406                  | 2,879,861            |
| Nonfirm Sales.....   | 76,987   | 1,860,560            | 615                      | 6,711                |
| Miscellaneous Sales <sup>1</sup> .....                             | 1,751,778  | 39,439,340           | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 1,125,738  | 3,630,670            | —                        | —                    |
| <b>MAIN</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 3,129,479                | 59,626,068           |
| Nonfirm Sales.....   | 1,235,766  | 22,226,132           | 1,917,019                | 54,605,765           |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 163,980  | 254,038              | 397,463                  | 233,442              |
| <b>MAPP</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 428,529                  | 9,188,446            |
| Nonfirm Sales.....   | 59,419   | 869,817              | 1,829,164                | 26,047,884           |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | 217                  |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 81,001   | 225,731              | 234,922                  | 550,350              |
| <b>NPCC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 4,794  | 109,231              | —                        | —                    |
| Nonfirm Sales.....   | 44,525   | 1,269,695            | 62,400                   | 99,711               |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | —                        | —                    |
| <b>SERC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 37,587,627   | 1,724,218,460        | 15,563                   | 1,619,022            |
| Nonfirm Sales.....   | 41,902,925   | 1,216,645,959        | 8,955,965                | 691,461,032          |
| Miscellaneous Sales <sup>1</sup> .....                             | -430,367   | -21,512,775          | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | 8,232,256  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 21,651,447   | 112,867,540          | 171,651                  | 1,929,463            |
| <b>SPP</b>   |  |                      |                          |                      |
| Firm Sales.....  | 286,118  | 18,839,756           | 21,438,564               | 727,120,442          |
| Nonfirm Sales.....   | 262,072  | 5,831,217            | 27,852,531               | 681,904,436          |
| Miscellaneous Sales <sup>1</sup> .....                             | 1,600  | 6,720,424            | 311,482                  | 15,832,026           |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 1,941,667                | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 44,935   | 1,090,184            | 22,716,706               | 105,935,054          |
| <b>WSCC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 870,930  | 14,221,429           | 434,614                  | 23,195,046           |
| Nonfirm Sales.....   | 1,032,050  | 17,391,098           | 1,311,320                | 17,933,643           |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | —                        | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 968                      | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 1,562,351  | 4,685,506            | 151,566                  | 1,978,622            |
| <b>Region Total</b>  |  |                      |                          |                      |
| Firm Sales Receipts.....   | 50,359,941   | 2,063,266,608        | 27,127,789               | 905,760,408          |
| Nonfirm Sales Receipts.....  | 46,595,919   | 1,313,238,523        | 42,323,079               | 1,480,498,919        |
| Miscellaneous Sales Receipts <sup>1</sup> .....                    | 1,952,857  | 33,935,777           | 311,482                  | 15,833,358           |
| Exchanges Delivered Receipts <sup>2</sup> .....                    | 8,684,436  | —                    | 5,768,655                | —                    |
| Wheeling For Others Receipts <sup>3</sup> .....                    | 30,806,278   | 143,898,965          | 27,113,985               | 127,629,956          |

See notes and footnotes at end of table.

**Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1996**  
(Continued)

| NERC Region of<br>Investor-Owned Utilities/<br>Type of Transaction | Destination of Electricity to All Ownership Classes by NERC Region |                      |                          |                      |
|--|--|----------------------|--------------------------|----------------------|
|  | WSCC   |                      | Contiguous U.S. Total    |                      |
|  | Energy<br>(thousand kWh)   | Revenue<br>(dollars) | Energy<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>ECAR</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 80,710,403               | 2,191,039,430        |
| Nonfirm Sales.....   | —  | —                    | 65,331,580               | 1,398,481,107        |
| Miscellaneous Sales <sup>1</sup> .....                             | 168  | —                    | 6,773,501                | 197,825,875          |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 996,861                  | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 55,198,716               | 170,842,520          |
| <b>ERCOT</b>   |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 8,027,714                | 363,846,911          |
| Nonfirm Sales.....   | —  | —                    | 2,789,475                | 76,398,935           |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | 580                      | 1,149,699            |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 33,579,411               | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 21,578,303               | 61,673,144           |
| <b>MAAC</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 29,818,620               | 873,573,823          |
| Nonfirm Sales.....   | 21,290   | 462,831              | 32,028,044               | 829,867,895          |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | 8,673,494                | 205,274,672          |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | —                        | —                    |
| Wheeling For Others <sup>3</sup> .....                             | —  | —                    | 20,177,428               | 70,476,901           |
| <b>MAIN</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 27,510,615               | 795,387,074          |
| Nonfirm Sales.....   | —  | —                    | 23,643,121               | 397,728,059          |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | 1,551                    | —                    |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 140,115                  | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 800  | 1,364                | 7,068,183                | 30,005,492           |
| <b>MAPP</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 9,563,247                | 229,860,076          |
| Nonfirm Sales.....   | 79,169   | 1,386,752            | 9,262,007                | 143,571,891          |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | 5,720,737                | 173,349,512          |
| Exchanges Delivered <sup>2</sup> .....                             | 33,590   | —                    | 72,393                   | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 1,622,428  | 1,281,572            | 15,347,939               | 36,037,440           |
| <b>NPCC</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 50,321,864               | 2,828,602,550        |
| Nonfirm Sales.....   | 38,914   | 981,796              | 51,614,725               | 1,675,438,248        |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | 3,979,371                | 202,369,598          |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 754,753                  | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 157  | 310                  | 61,419,479               | 575,453,600          |
| <b>SERC</b>  |  |                      |                          |                      |
| Firm Sales.....  | —  | —                    | 42,447,515               | 1,834,169,612        |
| Nonfirm Sales.....   | 18,916   | 379,392              | 53,550,252               | 1,961,844,710        |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | -409,567                 | -21,512,775          |
| Exchanges Delivered <sup>2</sup> .....                             | —  | —                    | 8,491,351                | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 1,034,665  | 2,797,397            | 27,756,685               | 124,118,527          |
| <b>SPP</b>   |  |                      |                          |                      |
| Firm Sales.....  | 151,737  | 9,480,613            | 25,583,672               | 877,986,028          |
| Nonfirm Sales.....   | 714,248  | 28,210,275           | 32,295,463               | 785,058,002          |
| Miscellaneous Sales <sup>1</sup> .....                             | —  | —                    | 322,546                  | 22,824,800           |
| Exchanges Delivered <sup>2</sup> .....                             | 17,676   | —                    | 1,960,723                | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 578,254  | 703,046              | 24,637,423               | 114,098,232          |
| <b>WSCC</b>  |  |                      |                          |                      |
| Firm Sales.....  | 27,064,521   | 1,228,547,650        | 30,195,769               | 1,338,080,579        |
| Nonfirm Sales.....   | 51,134,804   | 771,302,119          | 57,192,816               | 863,588,461          |
| Miscellaneous Sales <sup>1</sup> .....                             | 24,372   | -14,926,809          | 24,372                   | -14,926,577          |
| Exchanges Delivered <sup>2</sup> .....                             | 23,480,762   | —                    | 23,488,350               | —                    |
| Wheeling For Others <sup>3</sup> .....                             | 67,737,147   | 202,020,569          | 69,739,791               | 209,415,554          |
| <b>Region Total</b>  |  |                      |                          |                      |
| Firm Sales Receipts.....   | 27,216,258   | 1,238,028,263        | 304,179,419              | 11,332,546,083       |
| Nonfirm Sales Receipts.....  | 52,007,341   | 802,723,165          | 327,707,483              | 8,131,977,308        |
| Miscellaneous Sales Receipts <sup>1</sup> .....                    | 24,540   | -14,926,809          | 25,086,585               | 766,354,804          |
| Exchanges Delivered Receipts <sup>2</sup> .....                    | 23,532,028   | —                    | 69,483,957               | —                    |
| Wheeling For Others Receipts <sup>3</sup> .....                    | 70,973,451   | 206,804,258          | 302,923,947              | 1,392,121,410        |

<sup>1</sup> Miscellaneous sales include other transactions involving line and substation rentals, system support charges, and special contract transactions.

<sup>2</sup> Reported as Power Exchange in account 555, "Purchased Power Transactions," of the FERC Uniform System of Accounts.

<sup>3</sup> Reported as transmission services in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. Total quantity of wheeling may not be reported.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •The isolated service territories of the same utility are assigned one NERC Region identification. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others."

•FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

**Table 17. Electricity Transactions by Investor-Owned Utilities in Alaska and Hawaii, 1996**

| Type of Transaction | Alaska                   |                   | Hawaii                   |                   |
|---------------------|--------------------------|-------------------|--------------------------|-------------------|
|                     | Energy<br>(thousand kWh) | Cost<br>(dollars) | Energy<br>(thousand kWh) | Cost<br>(dollars) |

**Received**

|  |         |           |           |             |
|--|---------|-----------|-----------|-------------|
| Firm Purchases .....                       | —       | —         | 82,536    | 7,005,413   |
| Nonfirm Purchases .....                    | 260,307 | 8,873,948 | 3,113,701 | 247,560,091 |
| Miscellaneous Purchases <sup>1</sup> ..... | —       | —         | —         | —           |
| Exchanges Received <sup>2</sup> .....      | —       | —         | 4,111     | —           |
| Wheeling By Other <sup>3</sup> .....       | —       | —         | —         | —           |

|  | Alaska                   |                      | Hawaii                   |                      |
|--|--------------------------|----------------------|--------------------------|----------------------|
|  | Energy<br>(thousand kWh) | Revenue<br>(dollars) | Energy<br>(thousand kWh) | Revenue<br>(dollars) |

**Delivered**

|  |   |   |       |          |
|--|---|---|-------|----------|
| Firm Sales .....                       | — | — | —     | —        |
| Nonfirm Sales .....                    | — | — | —     | —        |
| Miscellaneous Sales <sup>1</sup> ..... | — | — | —     | —        |
| Exchanges Delivered <sup>2</sup> ..... | — | — | 6,648 | -133,042 |
| Wheeling For Others <sup>3</sup> ..... | — | — | —     | —        |

<sup>1</sup> Miscellaneous purchases include other transactions involving line and substation rentals, system support charges, and special contract transactions.

<sup>2</sup> Reported as Power Exchange in account 555, "Purchased Power Transactions," of the FERC Uniform System of Accounts.

<sup>3</sup> Reported as transmission services in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. Total quantity of wheeling may not be reported.

—Not Applicable

Note: Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

**Table 18. U.S. Electricity Trade with Canada and Mexico by NERC Region, 1996**

| Province, Country/<br>Type of Transaction | U.S. NERC Region |            |         |             |             | Region Total |
|---|------------------|------------|---------|-------------|-------------|--------------|
|   | NPCC             | ECAR       | ERCOT   | MAPP        | WSCC        |              |
| <b>New Brunswick, Canada</b>              |                  |            |         |             |             |              |
| Imports From (thousand kWh) .....         | 2,894,544        | --         | --      | --          | --          | 2,894,544    |
| Cost (dollars) .....                      | 68,755,616       | --         | --      | --          | --          | 68,755,616   |
| Exports To (thousand kWh).....            | 312,726          | --         | --      | --          | --          | 312,726      |
| Revenue (dollars) .....                   | 665,865          | --         | --      | --          | --          | 665,865      |
| <b>Quebec, Canada</b>                     |                  |            |         |             |             |              |
| Imports From (thousand kWh) .....         | 14,988,194       | --         | --      | --          | --          | 14,988,194   |
| Cost (dollars) .....                      | 324,841,148      | --         | --      | --          | --          | 324,841,148  |
| Exports To (thousand kWh).....            | 718,680          | --         | --      | --          | --          | 718,680      |
| Revenue (dollars) .....                   | 19,359,417       | --         | --      | --          | --          | 19,359,417   |
| <b>Ontario, Canada</b>                    |                  |            |         |             |             |              |
| Imports From (thousand kWh) .....         | 2,665,684        | 2,110,820  | --      | --          | --          | 4,776,504    |
| Cost (dollars) .....                      | 38,654,729       | 54,537,592 | --      | --          | --          | 93,192,321   |
| Exports To (thousand kWh).....            | 494,082          | 209,243    | --      | --          | --          | 703,325      |
| Revenue (dollars) .....                   | 4,314,170        | 3,390,900  | --      | --          | --          | 7,705,070    |
| <b>Manitoba, Canada</b>                   |                  |            |         |             |             |              |
| Imports From (thousand kWh) .....         | --               | --         | --      | 11,534,423  | --          | 11,534,423   |
| Cost (dollars) .....                      | --               | --         | --      | 211,134,501 | --          | 211,134,501  |
| Exports To (thousand kWh).....            | --               | --         | --      | 591,143     | --          | 591,143      |
| Revenue (dollars) .....                   | --               | --         | --      | 3,795,879   | --          | 3,795,879    |
| <b>Saskatchewan, Canada</b>               |                  |            |         |             |             |              |
| Imports From (thousand kWh) .....         | --               | --         | --      | 318,015     | --          | 318,015      |
| Cost (dollars) .....                      | --               | --         | --      | 2,431,995   | --          | 2,431,995    |
| Exports To (thousand kWh).....            | --               | --         | --      | 57,763      | --          | 57,763       |
| Revenue (dollars) .....                   | --               | --         | --      | 381,885     | --          | 381,885      |
| <b>Alberta, Canada</b>                    |                  |            |         |             |             |              |
| Imports From (thousand kWh) .....         | --               | --         | --      | --          | --          | --           |
| Cost (dollars) .....                      | --               | --         | --      | --          | --          | --           |
| Exports To (thousand kWh).....            | --               | --         | --      | 107         | 3,188       | 3,295        |
| Revenue (dollars) .....                   | --               | --         | --      | 6,841       | 136,750     | 143,591      |
| <b>British Columbia, Canada</b>           |                  |            |         |             |             |              |
| Imports From (thousand kWh) .....         | --               | --         | --      | --          | 10,768,584  | 10,768,584   |
| Cost (dollars) .....                      | --               | --         | --      | --          | 85,141,894  | 85,141,894   |
| Exports To (thousand kWh).....            | --               | --         | --      | --          | 5,317,688   | 5,317,688    |
| Revenue (dollars) .....                   | --               | --         | --      | --          | 11,208,537  | 11,208,537   |
| <b>Canada</b>                             |                  |            |         |             |             |              |
| Imports From (thousand kWh) .....         | 20,548,422       | 2,110,820  | --      | 11,852,438  | 10,768,584  | 45,280,264   |
| Cost (dollars) .....                      | 432,051,493      | 54,537,592 | --      | 213,566,496 | 85,141,894  | 785,297,475  |
| Exports To (thousand kWh).....            | 1,525,488        | 209,243    | --      | 649,013     | 5,320,876   | 7,704,620    |
| Revenue (dollars) .....                   | 24,339,452       | 3,390,900  | --      | 4,184,605   | 11,345,287  | 43,260,244   |
| <b>Mexico</b>                             |                  |            |         |             |             |              |
| Imports From (thousand kWh) .....         | --               | --         | 5,566   | --          | 1,257,786   | 1,263,152    |
| Cost (dollars) .....                      | --               | --         | 133,434 | --          | 45,056,465  | 45,189,799   |
| Exports To (thousand kWh).....            | --               | --         | 2,395   | --          | 1,313,230   | 1,315,625    |
| Revenue (dollars) .....                   | --               | --         | 206,100 | --          | 53,834,050  | 54,040,150   |
| <b>Contiguous U.S. Total</b>              |                  |            |         |             |             |              |
| Imports To (thousand kWh) .....           | 20,548,422       | 2,110,820  | 5,566   | 11,852,438  | 12,026,370  | 46,543,416   |
| Cost (dollars) .....                      | 432,051,493      | 54,537,592 | 133,434 | 213,566,496 | 130,198,359 | 830,487,274  |
| Exports From (thousand kWh) .....         | 1,525,488        | 209,243    | 2,395   | 649,013     | 6,634,106   | 9,020,245    |
| Revenue (dollars) .....                   | 24,339,452       | 3,390,900  | 206,100 | 4,184,605   | 65,179,337  | 97,300,394   |

—Not Applicable

Notes: •The values do not reflect a large portion of U.S.-Canadian electricity trade that occurs on an exchange basis; i.e., energy imported is returned in kind with no monetary consideration. This "zero-cost" of imported and exported energy distorts the price-per-kilowatt-hour calculation. •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Source: Office of Fossil Energy, Form FE-781R "Annual Report of International Electrical Export/Import Data."

## 2. Bulk Power Transactions by Investor-Owned Utilities

### Overview

This chapter presents data for individual investor-owned utilities on purchased power, sales for resale, exchanges, and wheeling. Sales for resale are generally sales to other investor-owned utilities, public power municipals, and cooperatives under obligations to support wholesale requirement customers. These sales represent one of the most active parts of the electricity trade market. Purchases are generally made from other investor-owned utilities and Federal power marketing authorities. These purchases are made in order to take advantage of cheaper rates generally coming from hydroelectric generation, to supplement or replace internal power supplies, and for handling longer-term energy emergencies. Exchanges cover in-kind transfers, and wheeling (transmission for and by others) describes transmission services provided by utilities to other utilities. The tables present data for individual utilities aggregated to show trade with different classes of ownership.

Data are from the FERC Form 1, which is the only data source that identifies individual utilities involved in exchanges and wheeling.<sup>13</sup>

### Tables

This chapter presents data on:

- Energy purchases and cost, with cost data shown for demand, energy, and other (Table 19).
- Sales for resale and revenue, with revenue data shown for demand, energy, and other (Table 20).
- Exchanges of power by ownership class, identifying quantities transferred with any monetary settlement (Table 21). Nonmonetary settlements that may have occurred are not shown. Exchanges

are transactions where electricity provided to one utility is returned in kind at a later date. In these transactions, the value of the electricity may or may not have been priced at the same level. Additional money or electricity could have been involved in the exchanges, but the details of the transactions are not collected on the FERC forms.

- Electricity purchases by investor-owned utilities not listed elsewhere (Table 22). (These utilities are not listed elsewhere because of their small size and/or their power was purchased from cooperatives.)
- Wheeling through and to service territories of investor-owned utilities (Tables 23 and 24).

In each table, the investor-owned utilities are listed by State according to their corporate mailing addresses.

### Summary

Differences are present in all wholesale trade categories. Some are based on the diversity of the cost of energy coming from the individual mix of generating facilities that developed over time as the electric utility industry met local and regional changes in load. This includes development of inexpensive local natural resources. In other cases, differences can be explained because some electric utilities are requirement customers of others and lack generation capability so they cannot sell electricity.

The data indicate a great diversity in wholesale electricity trade and a complex market for electricity. The diversity represent differences in the influence of geographical location; the ability to access multiple parts of the transmission grid; the support of reliability and stability standards; and the load requirements coming from varied customer compositions of service territories.

<sup>13</sup> This is not the case for other data collected on exchanges and wheeling. Only aggregated data are collected on exchanges and wheeling on Form EIA-861, "Annual Electric Utility Report" and Form EIA-412, "Annual Report of Public Electric Utilities" starting in 1989.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996**

| Source of Electricity by Ownership Class | Alabama<br>Alabama Power Co | Alabama<br>Southern Electric Generating Co <sup>5</sup> | Alaska<br>Alaska Electric Light & Power <sup>4</sup> | Arizona<br>Ajo Improvement Co <sup>8</sup> | Arizona<br>Arizona Public Service Co | Arizona<br>Century Power Corp <sup>5</sup> | Arizona<br>Citizens Utilities Co |
|--|-----------------------------|---|--|--|--------------------------------------|--|----------------------------------|
| <b>Investor-Owned</b>                    |                             |   |  |  |                                      |  |                                  |
| Purchases (thousand kWh)                 | 3,166,368                   | —   | —  | —  | 1,893,156                            | —  | —                                |
| Cost (dollars).....                      | 86,838,975                  | —   | —  | —  | 39,278,601                           | —  | —                                |
| Demand Charge Only <sup>1</sup> .....    | —                           | —   | —  | —  | —                                    | —  | —                                |
| Demand.....                              | —                           | —   | —  | —  | 10,620,273                           | —  | —                                |
| Energy.....                              | 86,838,975                  | —   | —  | —  | 28,658,328                           | —  | —                                |
| Other <sup>2</sup> .....                 | —                           | —   | —  | —  | —                                    | —  | —                                |
| <b>Federal</b>                           |                             |   |  |  |                                      |  |                                  |
| Purchases (thousand kWh)                 | 119,670                     | —   | 260,307  | —  | 189,211                              | —  | —                                |
| Cost (dollars).....                      | 2,792,537                   | —   | 8,873,948  | —  | 2,595,283                            | —  | —                                |
| Demand Charge Only <sup>1</sup> .....    | —                           | —   | —  | —  | —                                    | —  | —                                |
| Demand.....                              | —                           | —   | —  | —  | —                                    | —  | —                                |
| Energy.....                              | 2,792,537                   | —   | 8,873,948  | —  | 2,595,283                            | —  | —                                |
| Other <sup>2</sup> .....                 | —                           | —   | —  | —  | —                                    | —  | —                                |
| <b>State and Other</b>                   |                             |   |  |  |                                      |  |                                  |
| <b>Government</b>                        |                             |   |  |  |                                      |  |                                  |
| Purchases (thousand kWh)                 | 23,107                      | —   | —  | —  | 625,973                              | —  | —                                |
| Cost (dollars).....                      | 608,815                     | —   | —  | —  | 35,153,342                           | —  | —                                |
| Demand Charge Only <sup>1</sup> .....    | —                           | —   | —  | —  | —                                    | —  | —                                |
| Demand.....                              | —                           | —   | —  | —  | 18,783,975                           | —  | —                                |
| Energy.....                              | 608,815                     | —   | —  | —  | 16,369,367                           | —  | —                                |
| Other <sup>2</sup> .....                 | —                           | —   | —  | —  | —                                    | —  | —                                |
| <b>Municipal</b>                         |                             |   |  |  |                                      |  |                                  |
| Purchases (thousand kWh)                 | 10,855                      | —   | —  | —  | 63,551                               | —  | —                                |
| Cost (dollars).....                      | 380,908                     | —   | —  | —  | 1,395,929                            | —  | —                                |
| Demand Charge Only <sup>1</sup> .....    | —                           | —   | —  | —  | —                                    | —  | —                                |
| Demand.....                              | —                           | —   | —  | —  | —                                    | —  | —                                |
| Energy.....                              | 380,908                     | —   | —  | —  | 1,395,929                            | —  | —                                |
| Other <sup>2</sup> .....                 | —                           | —   | —  | —  | —                                    | —  | —                                |
| <b>Cooperative</b>                       |                             |   |  |  |                                      |  |                                  |
| Purchases (thousand kWh)                 | 62,693                      | —   | —  | —  | 1,679                                | —  | —                                |
| Cost (dollars).....                      | 3,137,996                   | —   | —  | —  | 25,421                               | —  | —                                |
| Demand Charge Only <sup>1</sup> .....    | —                           | —   | —  | —  | —                                    | —  | —                                |
| Demand.....                              | —                           | —   | —  | —  | —                                    | —  | —                                |
| Energy.....                              | 3,137,996                   | —   | —  | —  | 25,421                               | —  | —                                |
| Other <sup>2</sup> .....                 | —                           | —   | —  | —  | —                                    | —  | —                                |
| <b>Other<sup>3</sup></b>                 |                             |   |  |  |                                      |  |                                  |
| Purchases (thousand kWh)                 | 1,088,180                   | —   | —  | —  | 1,249,513                            | —  | —                                |
| Cost (dollars).....                      | 34,554,414                  | —   | —  | —  | 16,681,993                           | —  | —                                |
| Demand Charge Only <sup>1</sup> .....    | —                           | —   | —  | —  | —                                    | —  | —                                |
| Demand.....                              | —                           | —   | —  | —  | —                                    | —  | —                                |
| Energy.....                              | 29,772,137                  | —   | —  | —  | 16,681,993                           | —  | —                                |
| Other <sup>2</sup> .....                 | 4,782,277                   | —   | —  | —  | —                                    | —  | —                                |
| <b>Total</b>                             |                             |   |  |  |                                      |  |                                  |
| Purchases (thousand kWh)                 | 4,470,873                   | —   | 260,307  | —  | 4,023,083                            | —  | —                                |
| Cost (dollars).....                      | 128,313,645                 | —   | 8,873,948  | —  | 95,130,569                           | —  | —                                |
| Demand Charge Only <sup>1</sup> .....    | —                           | —   | —  | —  | —                                    | —  | —                                |
| Demand.....                              | —                           | —   | —  | —  | 29,404,248                           | —  | —                                |
| Energy.....                              | 123,531,368                 | —   | 8,873,948  | —  | 65,726,321                           | —  | —                                |
| Other <sup>2</sup> .....                 | 4,782,277                   | —   | —  | —  | —                                    | —  | —                                |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Arizona<br>Tucson Electric Power Co | Arkansas<br>Arkansas Power & Light Co | Arkansas<br>Entergy Power Co | California<br>Pacific Gas & Electric Co | California<br>San Diego Gas & Electric Co | California<br>Southern California Edison Co | Colorado<br>Public Service Co of Colorado |
|--|-------------------------------------|---------------------------------------|------------------------------|---|---|---|---|
| <b>Investor-Owned</b>                    |                                     |                                       |                              |   |   |   |   |
| Purchases (thousand kWh)                 | 335,835                             | 3,640,653                             | —                            | 838,361                                 | 2,602,610                                 | 3,008,290                                   | 1,790,785                                 |
| Cost (dollars).....                      | 4,957,081                           | 250,254,298                           | —                            | 16,000,322                              | 97,006,716                                | 88,805,531                                  | 57,415,933                                |
| Demand Charge Only <sup>1</sup> .....    | —                                   | —                                     | —                            | 800                                     | —   | 16,900,000                                  | —   |
| Demand.....                              | —                                   | 219,885,243                           | —                            | —                                       | 58,043,006                                | 22,152,406                                  | 30,675,028                                |
| Energy.....                              | 4,957,081                           | 30,369,055                            | —                            | 15,999,522                              | 38,963,710                                | 49,753,125                                  | 26,964,873                                |
| Other <sup>2</sup> .....                 | —                                   | —                                     | —                            | —                                       | —   | —   | -223,968                                  |
| <b>Federal</b>                           |                                     |                                       |                              |   |   |   |   |
| Purchases (thousand kWh)                 | 102,556                             | 1,759,605                             | —                            | —                                       | 1,235,587                                 | 4,486,113                                   | 101,659                                   |
| Cost (dollars).....                      | 1,109,400                           | 36,071,071                            | —                            | —                                       | 12,427,449                                | 81,174,821                                  | 868,072                                   |
| Demand Charge Only <sup>1</sup> .....    | —                                   | —                                     | —                            | —                                       | —   | —   | —   |
| Demand.....                              | —                                   | —                                     | —                            | —                                       | —   | 3,006,900                                   | —   |
| Energy.....                              | 1,109,400                           | 36,071,071                            | —                            | —                                       | 12,427,449                                | 78,159,666                                  | 868,072                                   |
| Other <sup>2</sup> .....                 | —                                   | —                                     | —                            | —                                       | —   | 8,255                                       | —   |
| <b>State and Other</b>                   |                                     |                                       |                              |   |   |   |   |
| <b>Government</b>                        |                                     |                                       |                              |   |   |   |   |
| Purchases (thousand kWh)                 | 107,014                             | 67                                    | —                            | 5,035,133                               | 862,788                                   | 525,589                                     | 1,112,952                                 |
| Cost (dollars).....                      | 1,525,768                           | 2,417                                 | —                            | 43,224,391                              | 15,269,173                                | 8,415,764                                   | 54,348,392                                |
| Demand Charge Only <sup>1</sup> .....    | —                                   | —                                     | —                            | —                                       | —   | 900,000                                     | —   |
| Demand.....                              | —                                   | —                                     | —                            | 158,176                                 | —   | 19,160                                      | 35,812,316                                |
| Energy.....                              | 1,525,768                           | 2,417                                 | —                            | 43,066,215                              | 15,269,173                                | 7,496,604                                   | 18,536,076                                |
| Other <sup>2</sup> .....                 | —                                   | —                                     | —                            | —                                       | —   | —   | —   |
| <b>Municipal</b>                         |                                     |                                       |                              |   |   |   |   |
| Purchases (thousand kWh)                 | 71,399                              | 76,508                                | —                            | 170,499                                 | 349,701                                   | 872,622                                     | 6,093                                     |
| Cost (dollars).....                      | 1,113,956                           | 1,469,850                             | —                            | 4,391,162                               | 7,975,358                                 | 42,105,177                                  | 196,718                                   |
| Demand Charge Only <sup>1</sup> .....    | —                                   | —                                     | —                            | 1,365,000                               | —   | —   | —   |
| Demand.....                              | —                                   | —                                     | —                            | 40,800                                  | 2,268,090                                 | 6,346,427                                   | 109,753                                   |
| Energy.....                              | 1,113,956                           | 1,469,850                             | —                            | 2,985,362                               | 5,707,268                                 | 41,032,967                                  | 86,965                                    |
| Other <sup>2</sup> .....                 | —                                   | —                                     | —                            | —                                       | —   | -5,274,217                                  | —   |
| <b>Cooperative</b>                       |                                     |                                       |                              |   |   |   |   |
| Purchases (thousand kWh)                 | 116,974                             | 2,748,708                             | —                            | 478,252                                 | 120                                       | 3,591                                       | 3,378,170                                 |
| Cost (dollars).....                      | 2,250,134                           | 52,914,424                            | —                            | 4,844,387                               | 19,426                                    | 64,522                                      | 152,646,631                               |
| Demand Charge Only <sup>1</sup> .....    | —                                   | —                                     | —                            | —                                       | —   | —   | —   |
| Demand.....                              | —                                   | —                                     | —                            | 172,224                                 | —   | —   | 103,664,873                               |
| Energy.....                              | 2,250,134                           | 52,914,424                            | —                            | 4,672,163                               | 19,426                                    | 53,722                                      | 48,981,758                                |
| Other <sup>2</sup> .....                 | —                                   | —                                     | —                            | —                                       | —   | 10,800                                      | —   |
| <b>Other<sup>3</sup></b>                 |                                     |                                       |                              |   |   |   |   |
| Purchases (thousand kWh)                 | 196,541                             | 3,588,546                             | —                            | 27,804,245                              | 5,012,261                                 | 29,676,068                                  | 2,829,470                                 |
| Cost (dollars).....                      | 3,884,860                           | 92,112,805                            | —                            | 1,766,853,498                           | 175,675,969                               | 2,484,752,527                               | 173,703,611                               |
| Demand Charge Only <sup>1</sup> .....    | 144,000                             | —                                     | —                            | —                                       | —   | —   | —   |
| Demand.....                              | —                                   | —                                     | —                            | 520,790,705                             | 60,608,899                                | 667,728,889                                 | 137,493,414                               |
| Energy.....                              | 3,593,628                           | 92,113,466                            | —                            | 1,245,568,735                           | 115,067,070                               | 1,780,084,156                               | 35,926,034                                |
| Other <sup>2</sup> .....                 | 147,232                             | -661                                  | —                            | 494,058                                 | —   | 36,939,482                                  | 284,163                                   |
| <b>Total</b>                             |                                     |                                       |                              |   |   |   |   |
| Purchases (thousand kWh)                 | 930,319                             | 11,814,087                            | —                            | 34,326,490                              | 10,063,067                                | 38,572,273                                  | 9,219,129                                 |
| Cost (dollars).....                      | 14,841,199                          | 432,824,865                           | —                            | 1,835,313,760                           | 308,374,091                               | 2,705,318,342                               | 439,179,357                               |
| Demand Charge Only <sup>1</sup> .....    | 144,000                             | —                                     | —                            | 1,365,800                               | —   | 17,800,000                                  | —   |
| Demand.....                              | —                                   | 219,885,243                           | —                            | 521,161,905                             | 120,919,995                               | 699,253,782                                 | 307,755,384                               |
| Energy.....                              | 14,549,967                          | 212,940,283                           | —                            | 1,312,291,997                           | 187,454,096                               | 1,956,580,240                               | 131,363,778                               |
| Other <sup>2</sup> .....                 | 147,232                             | -661                                  | —                            | 494,058                                 | —   | 31,684,320                                  | 60,195                                    |

See notes and footnotes at end of table.



**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Colorado<br>Utilicorp<br>United<br>Inc | Connecticut<br>Connecticut<br>Light &<br>Power<br>Co | Connecticut<br>Connecticut<br>Yankee<br>Atomic Power<br>Co <sup>5</sup> | Connecticut<br>United<br>Illuminating<br>Co | Delaware<br>Delmarva<br>Power<br>& Light<br>Co | District of<br>Columbia<br>Potomac<br>Electric<br>Power Co | Florida<br>Florida<br>Power &<br>Light<br>Co |
|--|--|--|---|---|--|--|--|
| <b>Investor-Owned</b>                    |  |  |   |   |  |  |  |
| Purchases (thousand kWh)                 | —                                      | 6,808,970  | —   | 348,147                                     | 2,415,285                                      | 8,963,342  | 1,199,112                                    |
| Cost (dollars).....                      | —                                      | 225,516,103  | —   | 21,579,170                                  | 52,073,579                                     | 296,054,391  | 22,091,871                                   |
| Demand Charge Only <sup>1</sup> .....    | —                                      | —  | —   | —   | —  | —  | —  |
| Demand.....                              | —                                      | —  | —   | 18,175,551                                  | —  | —  | —  |
| Energy.....                              | —                                      | 125,820,717  | —   | 3,403,619                                   | 52,073,579                                     | 172,899,503  | 22,091,871                                   |
| Other <sup>2</sup> .....                 | —                                      | 99,695,386   | —   | —   | —  | 123,154,888  | —  |
| <b>Federal</b>                           |  |  |   |   |  |  |  |
| Purchases (thousand kWh)                 | —                                      | —  | —   | —   | —  | —  | —  |
| Cost (dollars).....                      | —                                      | —  | —   | —   | —  | —  | —  |
| Demand Charge Only <sup>1</sup> .....    | —                                      | —  | —   | —   | —  | —  | —  |
| Demand.....                              | —                                      | —  | —   | —   | —  | —  | —  |
| Energy.....                              | —                                      | —  | —   | —   | —  | —  | —  |
| Other <sup>2</sup> .....                 | —                                      | —  | —   | —   | —  | —  | —  |
| <b>State and Other</b>                   |  |  |   |   |  |  |  |
| <b>Government</b>                        |  |  |   |   |  |  |  |
| Purchases (thousand kWh)                 | —                                      | 123,075  | —   | 9,085                                       | —  | —  | 338,985                                      |
| Cost (dollars).....                      | —                                      | 3,273,074  | —   | 62,477                                      | —  | —  | 17,000,875                                   |
| Demand Charge Only <sup>1</sup> .....    | —                                      | —  | —   | —   | —  | —  | —  |
| Demand.....                              | —                                      | —  | —   | —   | —  | —  | 11,691,540                                   |
| Energy.....                              | —                                      | 3,090,394  | —   | 62,477                                      | —  | —  | 5,248,136                                    |
| Other <sup>2</sup> .....                 | —                                      | 182,680  | —   | —   | —  | —  | 61,199                                       |
| <b>Municipal</b>                         |  |  |   |   |  |  |  |
| Purchases (thousand kWh)                 | —                                      | 213,580  | —   | —   | 39,688   | —  | 3,597,971                                    |
| Cost (dollars).....                      | —                                      | 16,474,325   | —   | —   | 2,076,307                                      | —  | 131,659,235                                  |
| Demand Charge Only <sup>1</sup> .....    | —                                      | —  | —   | —   | —  | —  | —  |
| Demand.....                              | —                                      | —  | —   | —   | —  | —  | 77,135,218                                   |
| Energy.....                              | —                                      | 16,474,325   | —   | —   | 1,223,241                                      | —  | 55,251,123                                   |
| Other <sup>2</sup> .....                 | —                                      | —  | —   | —   | 853,066  | —  | -727,106                                     |
| <b>Cooperative</b>                       |  |  |   |   |  |  |  |
| Purchases (thousand kWh)                 | —                                      | 16,076   | —   | —   | —  | —  | 547,656                                      |
| Cost (dollars).....                      | —                                      | 321,913  | —   | —   | —  | 5,538,905  | 10,382,000                                   |
| Demand Charge Only <sup>1</sup> .....    | —                                      | —  | —   | —   | —  | —  | —  |
| Demand.....                              | —                                      | —  | —   | —   | —  | —  | —  |
| Energy.....                              | —                                      | 321,913  | —   | —   | —  | —  | 10,378,931                                   |
| Other <sup>2</sup> .....                 | —                                      | —  | —   | —   | —  | 5,538,905  | 3,069  |
| <b>Other<sup>3</sup></b>                 |  |  |   |   |  |  |  |
| Purchases (thousand kWh)                 | —                                      | 13,816,386   | —   | 996,189                                     | 3,740,747                                      | 7,325,617  | 13,067,225                                   |
| Cost (dollars).....                      | —                                      | 599,070,680  | —   | 54,207,721                                  | 124,560,385                                    | 160,171,074  | 648,195,208                                  |
| Demand Charge Only <sup>1</sup> .....    | —                                      | —  | —   | —   | —  | —  | —  |
| Demand.....                              | —                                      | —  | —   | 28,633,525                                  | 30,449,978                                     | —  | 381,392,342                                  |
| Energy.....                              | —                                      | 527,905,594  | —   | 23,618,196                                  | 89,172,129                                     | 144,896,345  | 255,014,840                                  |
| Other <sup>2</sup> .....                 | —                                      | 71,165,086   | —   | 1,956,000                                   | 4,938,278                                      | 15,274,729   | 11,788,026                                   |
| <b>Total</b>                             |  |  |   |   |  |  |  |
| Purchases (thousand kWh)                 | —                                      | 20,978,087   | —   | 1,353,421                                   | 6,195,720                                      | 16,288,959   | 18,750,949                                   |
| Cost (dollars).....                      | —                                      | 844,656,095  | —   | 75,849,368                                  | 178,710,271                                    | 461,764,370  | 829,329,189                                  |
| Demand Charge Only <sup>1</sup> .....    | —                                      | —  | —   | —   | —  | —  | —  |
| Demand.....                              | —                                      | —  | —   | 46,809,076                                  | 30,449,978                                     | —  | 470,219,100                                  |
| Energy.....                              | —                                      | 673,612,943  | —   | 27,084,292                                  | 142,468,949                                    | 317,795,848  | 347,984,901                                  |
| Other <sup>2</sup> .....                 | —                                      | 171,043,152  | —   | 1,956,000                                   | 5,791,344                                      | 143,968,522  | 11,125,188                                   |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Florida            | Florida       | Florida           | Georgia          | Georgia                      | Hawaii                             | Hawaii                                |
|--|--------------------|---------------|-------------------|------------------|------------------------------|------------------------------------|---------------------------------------|
|  | Florida Power Corp | Gulf Power Co | Tampa Electric Co | Georgia Power Co | Savannah Electric & Power Co | Citizens Utilities Co <sup>4</sup> | Hawaiian Electric Co Inc <sup>4</sup> |
| <b>Investor-Owned</b>                    |                    |               |                   |                  |                              |                                    |                                       |
| Purchases (thousand kWh)                 | 815,579            | 96,478        | 79,632            | 3,431,658        | 23,345                       | —                                  | —                                     |
| Cost (dollars).....                      | 30,408,653         | 2,809,356     | 3,383,147         | 103,815,124      | 707,334                      | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....    | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                              | 5,656,404          | —             | —                 | 642,143          | —                            | —                                  | —                                     |
| Energy.....                              | 24,752,249         | 2,809,356     | 3,341,401         | 103,172,981      | 707,334                      | —                                  | —                                     |
| Other <sup>2</sup> .....                 | —                  | —             | 41,746            | —                | —                            | —                                  | —                                     |
| <b>Federal</b>                           |                    |               |                   |                  |                              |                                    |                                       |
| Purchases (thousand kWh)                 | 34,439             | 23,308        | —                 | 179,306          | 8,935                        | —                                  | —                                     |
| Cost (dollars).....                      | 318,492            | 542,007       | —                 | 4,213,046        | 208,494                      | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....    | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                              | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| Energy.....                              | 318,492            | 542,007       | —                 | 4,213,046        | 208,494                      | —                                  | —                                     |
| Other <sup>2</sup> .....                 | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| <b>State and Other</b>                   |                    |               |                   |                  |                              |                                    |                                       |
| <b>Government</b>                        |                    |               |                   |                  |                              |                                    |                                       |
| Purchases (thousand kWh)                 | 313,636            | 4,695         | —                 | 1,538,155        | 1,725                        | —                                  | —                                     |
| Cost (dollars).....                      | 13,425,380         | 127,133       | —                 | 84,609,777       | 45,463                       | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....    | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                              | 6,915,056          | —             | —                 | 59,683,000       | —                            | —                                  | —                                     |
| Energy.....                              | 6,510,324          | 127,133       | —                 | 24,926,777       | 45,463                       | —                                  | —                                     |
| Other <sup>2</sup> .....                 | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| <b>Municipal</b>                         |                    |               |                   |                  |                              |                                    |                                       |
| Purchases (thousand kWh)                 | 325,602            | 2,079         | 47,514            | 52,409           | 711                          | —                                  | —                                     |
| Cost (dollars).....                      | 10,605,731         | 63,641        | 2,336,565         | 1,148,739        | 23,676                       | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....    | —                  | —             | 492,480           | —                | —                            | —                                  | —                                     |
| Demand.....                              | —                  | —             | 109               | 6,809            | —                            | —                                  | —                                     |
| Energy.....                              | 10,605,731         | 63,641        | 1,843,806         | 1,141,930        | 23,676                       | —                                  | —                                     |
| Other <sup>2</sup> .....                 | —                  | —             | 170               | —                | —                            | —                                  | —                                     |
| <b>Cooperative</b>                       |                    |               |                   |                  |                              |                                    |                                       |
| Purchases (thousand kWh)                 | 313,656            | 24,321        | 15,165            | 1,165,845        | 2,085                        | —                                  | —                                     |
| Cost (dollars).....                      | 2,359,169          | 371,793       | 561,950           | 21,271,681       | 52,162                       | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....    | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                              | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| Energy.....                              | 2,359,169          | 371,793       | 559,095           | 21,271,681       | 52,162                       | —                                  | —                                     |
| Other <sup>2</sup> .....                 | —                  | —             | 2,855             | —                | —                            | —                                  | —                                     |
| <b>Other<sup>3</sup></b>                 |                    |               |                   |                  |                              |                                    |                                       |
| Purchases (thousand kWh)                 | 9,351,972          | 1,209,019     | 773,517           | 8,197,388        | 2,673,402                    | —                                  | 3,113,701                             |
| Cost (dollars).....                      | 477,085,961        | 39,462,389    | 42,717,386        | 171,573,073      | 59,903,755                   | —                                  | 247,560,091                           |
| Demand Charge Only <sup>1</sup> .....    | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                              | 271,465,173        | 8,814,954     | 24,850,773        | —                | 339,579                      | —                                  | —                                     |
| Energy.....                              | 205,620,788        | 30,647,435    | 17,866,613        | 171,573,073      | 59,564,176                   | —                                  | 141,250,205                           |
| Other <sup>2</sup> .....                 | —                  | —             | —                 | —                | —                            | —                                  | 106,309,886                           |
| <b>Total</b>                             |                    |               |                   |                  |                              |                                    |                                       |
| Purchases (thousand kWh)                 | 11,154,884         | 1,359,900     | 915,828           | 14,564,761       | 2,710,203                    | —                                  | 3,113,701                             |
| Cost (dollars).....                      | 534,203,386        | 43,376,319    | 48,999,048        | 386,631,440      | 60,940,884                   | —                                  | 247,560,091                           |
| Demand Charge Only <sup>1</sup> .....    | —                  | —             | 492,480           | —                | —                            | —                                  | —                                     |
| Demand.....                              | 284,036,633        | 8,814,954     | 24,850,882        | 60,331,952       | 339,579                      | —                                  | —                                     |
| Energy.....                              | 250,166,753        | 34,561,365    | 23,610,915        | 326,299,488      | 60,601,305                   | —                                  | 141,250,205                           |
| Other <sup>2</sup> .....                 | —                  | —             | 44,771            | —                | —                            | —                                  | 106,309,886                           |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Hawaii<br>Maui Electric Co Ltd <sup>4</sup> | Idaho<br>Citizens Utilities Co <sup>4</sup> | Idaho<br>Idaho Power Co | Illinois<br>Central Illinois Light Co | Illinois<br>Central Illinois Public Service Co | Illinois<br>Commonwealth Edison Co | Illinois<br>Electric Energy Inc |
|--|---|---|-------------------------|---------------------------------------|--|------------------------------------|---------------------------------|
| <b>Investor-Owned</b>                    |   |   |                         |                                       |  |                                    |                                 |
| Purchases (thousand kWh)                 | —   | —   | 1,027,143               | 293,550                               | 1,334,655                                      | 5,826,135                          | 3,746,993                       |
| Cost (dollars).....                      | —   | —   | 21,143,451              | 9,127,275                             | 24,815,777                                     | 199,104,936                        | 59,162,543                      |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Demand.....                              | —   | —   | 719,458                 | 4,550,000                             | 5,166,724                                      | 30,131,701                         | —                               |
| Energy.....                              | —   | —   | 20,423,993              | 4,577,275                             | 19,649,053                                     | 168,973,235                        | 59,162,543                      |
| Other <sup>2</sup> .....                 | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| <b>Federal</b>                           |   |   |                         |                                       |  |                                    |                                 |
| Purchases (thousand kWh)                 | —   | —   | 1,019,344               | —                                     | 387,158  | —                                  | 21,588                          |
| Cost (dollars).....                      | —   | —   | 8,124,179               | —                                     | 7,380,352                                      | —                                  | 498,219                         |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Demand.....                              | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Energy.....                              | —   | —   | 8,124,179               | —                                     | 7,380,352                                      | —                                  | 498,219                         |
| Other <sup>2</sup> .....                 | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| <b>State and Other</b>                   |   |   |                         |                                       |  |                                    |                                 |
| <b>Government</b>                        |   |   |                         |                                       |  |                                    |                                 |
| Purchases (thousand kWh)                 | —   | —   | 51,805                  | —                                     | —  | —                                  | —                               |
| Cost (dollars).....                      | —   | —   | 1,397,131               | —                                     | —  | —                                  | —                               |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Demand.....                              | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Energy.....                              | —   | —   | 1,397,131               | —                                     | —  | —                                  | —                               |
| Other <sup>2</sup> .....                 | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| <b>Municipal</b>                         |   |   |                         |                                       |  |                                    |                                 |
| Purchases (thousand kWh)                 | —   | —   | 57,367                  | 12,413                                | 24,435   | —                                  | —                               |
| Cost (dollars).....                      | —   | —   | 897,545                 | 212,573                               | 445,180  | —                                  | —                               |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Demand.....                              | —   | —   | —                       | —                                     | 2,250  | —                                  | —                               |
| Energy.....                              | —   | —   | 897,545                 | 212,573                               | 442,930  | —                                  | —                               |
| Other <sup>2</sup> .....                 | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| <b>Cooperative</b>                       |   |   |                         |                                       |  |                                    |                                 |
| Purchases (thousand kWh)                 | —   | —   | 3,392                   | —                                     | 55,687   | —                                  | —                               |
| Cost (dollars).....                      | —   | —   | 52,587                  | —                                     | 636,253  | —                                  | —                               |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Demand.....                              | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Energy.....                              | —   | —   | 52,587                  | —                                     | 636,253  | —                                  | —                               |
| Other <sup>2</sup> .....                 | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| <b>Other<sup>3</sup></b>                 |   |   |                         |                                       |  |                                    |                                 |
| Purchases (thousand kWh)                 | 82,536                                      | —   | 827,910                 | 71,432                                | 856,094  | 2,094,916                          | 179,687                         |
| Cost (dollars).....                      | 7,005,413                                   | —   | 37,423,104              | 1,564,370                             | 20,225,194                                     | 40,331,860                         | 1,726,685                       |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Demand.....                              | 1,914,224                                   | —   | 2,303,773               | 92,107                                | 478,448  | 55,200                             | —                               |
| Energy.....                              | 5,091,189                                   | —   | 35,119,331              | 1,472,263                             | 19,746,746                                     | 40,276,660                         | 1,671,861                       |
| Other <sup>2</sup> .....                 | —   | —   | —                       | —                                     | —  | —                                  | 54,824                          |
| <b>Total</b>                             |   |   |                         |                                       |  |                                    |                                 |
| Purchases (thousand kWh)                 | 82,536                                      | —   | 2,986,961               | 377,395                               | 2,658,029                                      | 7,921,051                          | 3,948,268                       |
| Cost (dollars).....                      | 7,005,413                                   | —   | 69,037,997              | 10,904,218                            | 53,502,756                                     | 239,436,796                        | 61,387,447                      |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Demand.....                              | 1,914,224                                   | —   | 3,023,231               | 4,642,107                             | 5,647,422                                      | 30,186,901                         | —                               |
| Energy.....                              | 5,091,189                                   | —   | 66,014,766              | 6,262,111                             | 47,855,334                                     | 209,249,895                        | 61,332,623                      |
| Other <sup>2</sup> .....                 | —   | —   | —                       | —                                     | —  | —                                  | 54,824                          |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Illinois<br>Illinois Power Co | Illinois<br>Mt Carmel Public Utility Co | Indiana<br>Alcoa Generating Corp <sup>4</sup> | Indiana<br>Commonwealth Edison of Indiana <sup>5</sup> | Indiana<br>Indiana Michigan Power Co | Indiana<br>Indianapolis Power & Light Co | Indiana<br>Northern Indiana Public Service Co |
|--|-------------------------------|---|---|--|--------------------------------------|--|---|
| <b>Investor-Owned</b>                    |                               |   |   |  |                                      |  |   |
| Purchases (thousand kWh)                 | 2,016,411                     | 192,594                                 | 285,122                                       | —  | 4,152,447                            | 193,104                                  | 840,598                                       |
| Cost (dollars).....                      | 33,472,125                    | 6,889,181                               | 5,605,778                                     | —  | 103,078,761                          | 17,917,747                               | 15,422,572                                    |
| Demand Charge Only <sup>1</sup> .....    | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand.....                              | 5,640,026                     | 3,360,785                               | 5,605,778                                     | —  | 25,703                               | 14,412,225                               | 202,000                                       |
| Energy.....                              | 27,832,099                    | 3,528,396                               | —   | —  | 103,053,058                          | 3,505,522                                | 15,220,572                                    |
| Other <sup>2</sup> .....                 | —                             | —                                       | —   | —  | —                                    | —  | —   |
| <b>Federal</b>                           |                               |   |   |  |                                      |  |   |
| Purchases (thousand kWh)                 | 526,949                       | —                                       | —   | —  | 43,526                               | —  | —   |
| Cost (dollars).....                      | 14,572,446                    | —                                       | —   | —  | 1,003,886                            | —  | —   |
| Demand Charge Only <sup>1</sup> .....    | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand.....                              | 3,063,623                     | —                                       | —   | —  | —                                    | —  | —   |
| Energy.....                              | 11,508,823                    | —                                       | —   | —  | 1,003,886                            | —  | —   |
| Other <sup>2</sup> .....                 | —                             | —                                       | —   | —  | —                                    | —  | —   |
| <b>State and Other</b>                   |                               |   |   |  |                                      |  |   |
| <b>Government</b>                        |                               |   |   |  |                                      |  |   |
| Purchases (thousand kWh)                 | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Cost (dollars).....                      | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand Charge Only <sup>1</sup> .....    | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand.....                              | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Energy.....                              | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Other <sup>2</sup> .....                 | —                             | —                                       | —   | —  | —                                    | —  | —   |
| <b>Municipal</b>                         |                               |   |   |  |                                      |  |   |
| Purchases (thousand kWh)                 | 32,915                        | —                                       | —   | —  | 105                                  | —  | —   |
| Cost (dollars).....                      | 692,059                       | —                                       | —   | —  | 66,672                               | —  | —   |
| Demand Charge Only <sup>1</sup> .....    | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand.....                              | 40,520                        | —                                       | —   | —  | —                                    | —  | —   |
| Energy.....                              | 651,539                       | —                                       | —   | —  | 66,672                               | —  | —   |
| Other <sup>2</sup> .....                 | —                             | —                                       | —   | —  | —                                    | —  | —   |
| <b>Cooperative</b>                       |                               |   |   |  |                                      |  |   |
| Purchases (thousand kWh)                 | 59,952                        | —                                       | —   | —  | 4,498                                | 6,904                                    | 11,890  |
| Cost (dollars).....                      | 1,351,592                     | —                                       | —   | —  | 51,967                               | 107,883                                  | 280,211                                       |
| Demand Charge Only <sup>1</sup> .....    | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand.....                              | 198,071                       | —                                       | —   | —  | —                                    | —  | 35,470  |
| Energy.....                              | 1,153,521                     | —                                       | —   | —  | 51,967                               | 107,883                                  | 244,741                                       |
| Other <sup>2</sup> .....                 | —                             | —                                       | —   | —  | —                                    | —  | —   |
| <b>Other<sup>3</sup></b>                 |                               |   |   |  |                                      |  |   |
| Purchases (thousand kWh)                 | 725,583                       | —                                       | —   | —  | 3,379,462                            | 10,403                                   | 1,964,588                                     |
| Cost (dollars).....                      | 15,118,133                    | —                                       | —   | —  | 34,485,631                           | 339,830                                  | 37,394,890                                    |
| Demand Charge Only <sup>1</sup> .....    | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand.....                              | 3,000                         | —                                       | —   | —  | —                                    | 18,703                                   | 1,063,792                                     |
| Energy.....                              | 15,115,133                    | —                                       | —   | —  | 34,485,631                           | 321,127                                  | 36,331,098                                    |
| Other <sup>2</sup> .....                 | —                             | —                                       | —   | —  | —                                    | —  | —   |
| <b>Total</b>                             |                               |   |   |  |                                      |  |   |
| Purchases (thousand kWh)                 | 3,361,810                     | 192,594                                 | 285,122                                       | —  | 7,580,038                            | 210,411                                  | 2,817,076                                     |
| Cost (dollars).....                      | 65,206,355                    | 6,889,181                               | 5,605,778                                     | —  | 138,686,917                          | 18,365,460                               | 53,097,673                                    |
| Demand Charge Only <sup>1</sup> .....    | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand.....                              | 8,945,240                     | 3,360,785                               | 5,605,778                                     | —  | 25,703                               | 14,430,928                               | 1,301,262                                     |
| Energy.....                              | 56,261,115                    | 3,528,396                               | —   | —  | 138,661,214                          | 3,934,532                                | 51,796,411                                    |
| Other <sup>2</sup> .....                 | —                             | —                                       | —   | —  | —                                    | —  | —   |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Indiana<br>PSI<br>Energy<br>Inc | Indiana<br>Southern<br>Indiana Gas<br>& Electric<br>Co | Iowa<br>Interstate<br>Power<br>Co | Iowa<br>Iowa<br>Electric<br>Light &<br>Power Co | Iowa<br>Iowa<br>Southern<br>Utilities<br>Co | Iowa<br>Iowa-<br>Illinois<br>Gas &<br>Electric<br>Co | Iowa<br>Midwest<br>Power<br>Systems<br>Inc |
|--|---------------------------------|--|-----------------------------------|---|---|--|--|
| <b>Investor-Owned</b>                    |                                 |  |                                   |   |   |  |  |
| Purchases (thousand kWh)                 | 6,941,485                       | 238,030  | 1,169,350                         | —   | —   | —  | —  |
| Cost (dollars).....                      | 124,764,773                     | 3,920,966  | 28,655,232                        | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....    | —                               | —  | —                                 | —   | —   | —  | —  |
| Demand.....                              | 2,616,612                       | 381,982  | 13,575,000                        | —   | —   | —  | —  |
| Energy.....                              | 122,148,161                     | 3,513,677  | 13,993,084                        | —   | —   | —  | —  |
| Other <sup>2</sup> .....                 | —                               | 25,307   | 1,087,148                         | —   | —   | —  | —  |
| <b>Federal</b>                           |                                 |  |                                   |   |   |  |  |
| Purchases (thousand kWh)                 | —                               | —  | 105,948                           | —   | —   | —  | —  |
| Cost (dollars).....                      | —                               | —  | 1,507,161                         | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....    | —                               | —  | —                                 | —   | —   | —  | —  |
| Demand.....                              | —                               | —  | —                                 | —   | —   | —  | —  |
| Energy.....                              | —                               | —  | 1,507,161                         | —   | —   | —  | —  |
| Other <sup>2</sup> .....                 | —                               | —  | —                                 | —   | —   | —  | —  |
| <b>State and Other</b>                   |                                 |  |                                   |   |   |  |  |
| <b>Government</b>                        |                                 |  |                                   |   |   |  |  |
| Purchases (thousand kWh)                 | 220,798                         | —  | 43,952                            | —   | —   | —  | —  |
| Cost (dollars).....                      | 3,593,680                       | —  | 679,784                           | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....    | 16,607                          | —  | —                                 | —   | —   | —  | —  |
| Demand.....                              | —                               | —  | —                                 | —   | —   | —  | —  |
| Energy.....                              | 3,577,073                       | —  | 679,784                           | —   | —   | —  | —  |
| Other <sup>2</sup> .....                 | —                               | —  | —                                 | —   | —   | —  | —  |
| <b>Municipal</b>                         |                                 |  |                                   |   |   |  |  |
| Purchases (thousand kWh)                 | 1,268                           | —  | 75,157                            | —   | —   | —  | —  |
| Cost (dollars).....                      | 33,175                          | —  | 1,236,950                         | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....    | —                               | —  | 35,950                            | —   | —   | —  | —  |
| Demand.....                              | —                               | —  | —                                 | —   | —   | —  | —  |
| Energy.....                              | 33,175                          | —  | 1,201,000                         | —   | —   | —  | —  |
| Other <sup>2</sup> .....                 | —                               | —  | —                                 | —   | —   | —  | —  |
| <b>Cooperative</b>                       |                                 |  |                                   |   |   |  |  |
| Purchases (thousand kWh)                 | 132,772                         | 174,940  | 991,521                           | —   | —   | —  | —  |
| Cost (dollars).....                      | 2,925,994                       | 2,780,309  | 27,394,008                        | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....    | —                               | —  | —                                 | —   | —   | —  | —  |
| Demand.....                              | 89,000                          | —  | 13,151,250                        | —   | —   | —  | —  |
| Energy.....                              | 2,836,994                       | 2,780,309  | 13,603,422                        | —   | —   | —  | —  |
| Other <sup>2</sup> .....                 | —                               | —  | 639,336                           | —   | —   | —  | —  |
| <b>Other<sup>3</sup></b>                 |                                 |  |                                   |   |   |  |  |
| Purchases (thousand kWh)                 | 1,093,676                       | 63,048   | 114,455                           | —   | —   | —  | —  |
| Cost (dollars).....                      | 24,554,948                      | 1,593,752  | 2,082,416                         | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....    | —                               | —  | —                                 | —   | —   | —  | —  |
| Demand.....                              | 168,310                         | —  | —                                 | —   | —   | —  | —  |
| Energy.....                              | 24,386,638                      | 1,593,752  | 2,082,416                         | —   | —   | —  | —  |
| Other <sup>2</sup> .....                 | —                               | —  | —                                 | —   | —   | —  | —  |
| <b>Total</b>                             |                                 |  |                                   |   |   |  |  |
| Purchases (thousand kWh)                 | 8,389,999                       | 476,018  | 2,500,383                         | —   | —   | —  | —  |
| Cost (dollars).....                      | 155,872,570                     | 8,295,027  | 61,555,551                        | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....    | 16,607                          | —  | 35,950                            | —   | —   | —  | —  |
| Demand.....                              | 2,873,922                       | 381,982  | 26,726,250                        | —   | —   | —  | —  |
| Energy.....                              | 152,982,041                     | 7,887,738  | 33,066,867                        | —   | —   | —  | —  |
| Other <sup>2</sup> .....                 | —                               | 25,307   | 1,726,484                         | —   | —   | —  | —  |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Kansas<br>Kansas Gas & Electric Co | Kansas<br>Western Resources Inc | Kentucky<br>Kentucky Power Co | Kentucky<br>Kentucky Utilities Co | Kentucky<br>Louisville Gas & Electric Co | Kentucky<br>Union Light Heat & Power Co | Louisiana<br>Catalyst Old River Hydro <sup>5</sup> |
|--|------------------------------------|---------------------------------|-------------------------------|-----------------------------------|--|---|--|
| <b>Investor-Owned</b>                    |                                    |                                 |                               |                                   |  |   |  |
| Purchases (thousand kWh)                 | 230,166                            | 101,956                         | 2,609,497                     | 1,638,768                         | 383,041                                  | 3,601,370                               | —  |
| Cost (dollars).....                      | 5,295,819                          | 2,247,407                       | 69,921,845                    | 33,161,161                        | 6,125,582                                | 143,566,440                             | —  |
| Demand Charge Only <sup>1</sup> .....    | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Demand.....                              | —                                  | —                               | 9,634                         | 15,996,724                        | —  | 67,100,540                              | —  |
| Energy.....                              | 5,295,819                          | 2,247,407                       | 69,912,211                    | 17,164,437                        | 3,099,148                                | 100,838,362                             | —  |
| Other <sup>2</sup> .....                 | —                                  | —                               | —                             | —                                 | 3,026,434                                | -24,372,462                             | —  |
| <b>Federal</b>                           |                                    |                                 |                               |                                   |  |   |  |
| Purchases (thousand kWh)                 | —                                  | —                               | 15,626                        | 400                               | 74,811                                   | —                                       | —  |
| Cost (dollars).....                      | —                                  | —                               | 363,537                       | 19,355                            | 2,522,687                                | —                                       | —  |
| Demand Charge Only <sup>1</sup> .....    | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Demand.....                              | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Energy.....                              | —                                  | —                               | 363,537                       | 19,355                            | 2,522,687                                | —                                       | —  |
| Other <sup>2</sup> .....                 | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| <b>State and Other</b>                   |                                    |                                 |                               |                                   |  |   |  |
| <b>Government</b>                        |                                    |                                 |                               |                                   |  |   |  |
| Purchases (thousand kWh)                 | 475                                | 596,463                         | —                             | —                                 | —  | —                                       | —  |
| Cost (dollars).....                      | 4,988                              | 8,211,403                       | —                             | —                                 | —  | —                                       | —  |
| Demand Charge Only <sup>1</sup> .....    | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Demand.....                              | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Energy.....                              | 4,988                              | 8,211,403                       | —                             | —                                 | —  | —                                       | —  |
| Other <sup>2</sup> .....                 | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| <b>Municipal</b>                         |                                    |                                 |                               |                                   |  |   |  |
| Purchases (thousand kWh)                 | —                                  | 16,385                          | 21                            | 1,495,395                         | 2,182                                    | —                                       | —  |
| Cost (dollars).....                      | —                                  | 2,121,309                       | 1,951                         | 28,301,953                        | 29,895                                   | —                                       | —  |
| Demand Charge Only <sup>1</sup> .....    | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Demand.....                              | —                                  | 1,382,884                       | —                             | 7,958,234                         | —  | —                                       | —  |
| Energy.....                              | —                                  | 738,425                         | 1,951                         | 20,343,719                        | 29,895                                   | —                                       | —  |
| Other <sup>2</sup> .....                 | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| <b>Cooperative</b>                       |                                    |                                 |                               |                                   |  |   |  |
| Purchases (thousand kWh)                 | 97,840                             | 1,682                           | —                             | 9,200                             | 152,811                                  | —                                       | —  |
| Cost (dollars).....                      | 1,338,508                          | 65,722                          | -23                           | 161,882                           | 3,119,199                                | —                                       | —  |
| Demand Charge Only <sup>1</sup> .....    | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Demand.....                              | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Energy.....                              | 1,338,508                          | 65,722                          | -23                           | 161,882                           | 3,119,199                                | —                                       | —  |
| Other <sup>2</sup> .....                 | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| <b>Other<sup>3</sup></b>                 |                                    |                                 |                               |                                   |  |   |  |
| Purchases (thousand kWh)                 | 183,782                            | 99,370                          | 1,901,959                     | 21,826                            | 177,397                                  | —                                       | —  |
| Cost (dollars).....                      | 4,843,415                          | 1,873,719                       | 26,197,546                    | 846,071                           | 4,829,018                                | —                                       | —  |
| Demand Charge Only <sup>1</sup> .....    | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Demand.....                              | —                                  | —                               | —                             | 229,210                           | —  | —                                       | —  |
| Energy.....                              | 4,843,415                          | 1,873,719                       | 26,197,546                    | 616,861                           | 4,829,018                                | —                                       | —  |
| Other <sup>2</sup> .....                 | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| <b>Total</b>                             |                                    |                                 |                               |                                   |  |   |  |
| Purchases (thousand kWh)                 | 512,263                            | 815,856                         | 4,527,103                     | 3,165,589                         | 790,242                                  | 3,601,370                               | —  |
| Cost (dollars).....                      | 11,482,730                         | 14,519,560                      | 96,484,856                    | 62,490,422                        | 16,626,381                               | 143,566,440                             | —  |
| Demand Charge Only <sup>1</sup> .....    | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Demand.....                              | —                                  | 1,382,884                       | 9,634                         | 24,184,168                        | —  | 67,100,540                              | —  |
| Energy.....                              | 11,482,730                         | 13,136,676                      | 96,475,222                    | 38,306,254                        | 13,599,947                               | 100,838,362                             | —  |
| Other <sup>2</sup> .....                 | —                                  | —                               | —                             | —                                 | 3,026,434                                | -24,372,462                             | —  |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Louisiana                         | Louisiana                  | Louisiana                      | Louisiana                      | Maine                    | Maine                  | Maine                       |
|--|-----------------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------|------------------------|-----------------------------|
|  | Central Louisiana Electric Co Inc | Louisiana Power & Light Co | New Orleans Public Service Inc | Southwestern Electric Power Co | Bangor Hydro-Electric Co | Central Maine Power Co | Maine Electric Power Co Inc |
| <b>Investor-Owned</b>                    |                                   |                            |                                |                                |                          |                        |                             |
| Purchases (thousand kWh)                 | 10,532                            | 2,264,962                  | 1,627,686                      | 34,340                         | 1,648,935                | 4,223,078              | 1,440                       |
| Cost (dollars).....                      | 252,961                           | 111,849,475                | 116,032,377                    | 987,344                        | 49,450,131               | 155,462,112            | 18,565                      |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                          | —                              | —                              | 43,130                   | —                      | —                           |
| Demand.....                              | —                                 | 86,209,768                 | 104,765,589                    | —                              | 12,415,792               | —                      | —                           |
| Energy.....                              | 252,961                           | 25,639,707                 | 11,266,788                     | 943,136                        | 36,991,209               | 62,848,738             | 18,565                      |
| Other <sup>2</sup> .....                 | —                                 | —                          | —                              | 44,208                         | —                        | 92,613,374             | —                           |
| <b>Federal</b>                           |                                   |                            |                                |                                |                          |                        |                             |
| Purchases (thousand kWh)                 | —                                 | 2,338,619                  | 456,977                        | —                              | —                        | —                      | —                           |
| Cost (dollars).....                      | —                                 | 47,951,721                 | 9,371,819                      | —                              | —                        | —                      | —                           |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Demand.....                              | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Energy.....                              | —                                 | 47,951,721                 | 9,371,819                      | —                              | —                        | —                      | —                           |
| Other <sup>2</sup> .....                 | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| <b>State and Other</b>                   |                                   |                            |                                |                                |                          |                        |                             |
| <b>Government</b>                        |                                   |                            |                                |                                |                          |                        |                             |
| Purchases (thousand kWh)                 | 3,470                             | 3,757                      | 17                             | 10,736                         | —                        | —                      | —                           |
| Cost (dollars).....                      | 838,237                           | 696,621                    | 616                            | 205,042                        | —                        | —                      | —                           |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Demand.....                              | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Energy.....                              | 838,237                           | 696,621                    | 616                            | 205,042                        | —                        | —                      | —                           |
| Other <sup>2</sup> .....                 | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| <b>Municipal</b>                         |                                   |                            |                                |                                |                          |                        |                             |
| Purchases (thousand kWh)                 | 24,270                            | 101,366                    | 19,657                         | 66,402                         | —                        | 707                    | —                           |
| Cost (dollars).....                      | 654,757                           | 1,945,728                  | 378,632                        | 101,108                        | —                        | 17,724                 | —                           |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Demand.....                              | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Energy.....                              | 654,757                           | 1,945,728                  | 378,632                        | 101,108                        | —                        | 17,724                 | —                           |
| Other <sup>2</sup> .....                 | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| <b>Cooperative</b>                       |                                   |                            |                                |                                |                          |                        |                             |
| Purchases (thousand kWh)                 | 259,822                           | 1,119,411                  | 218,844                        | 1,777,036                      | —                        | —                      | —                           |
| Cost (dollars).....                      | 5,155,353                         | 19,819,753                 | 3,873,414                      | 17,836,128                     | —                        | —                      | —                           |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Demand.....                              | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Energy.....                              | 5,155,353                         | 19,819,753                 | 3,873,414                      | 17,836,128                     | —                        | —                      | —                           |
| Other <sup>2</sup> .....                 | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| <b>Other<sup>3</sup></b>                 |                                   |                            |                                |                                |                          |                        |                             |
| Purchases (thousand kWh)                 | 2,505,020                         | 6,954,157                  | 1,860,711                      | 887,634                        | 353,070                  | 5,198,292              | 2,104,164                   |
| Cost (dollars).....                      | 50,877,033                        | 221,058,700                | 46,792,915                     | 15,896,605                     | 29,288,937               | 350,298,967            | 52,561,728                  |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Demand.....                              | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Energy.....                              | 48,688,903                        | 221,058,700                | 46,792,915                     | 14,025,771                     | 29,288,937               | 334,201,668            | 52,552,479                  |
| Other <sup>2</sup> .....                 | 2,188,130                         | —                          | —                              | 1,870,834                      | —                        | 16,097,299             | 9,249                       |
| <b>Total</b>                             |                                   |                            |                                |                                |                          |                        |                             |
| Purchases (thousand kWh)                 | 2,803,114                         | 12,782,272                 | 4,183,892                      | 2,776,148                      | 2,002,005                | 9,422,077              | 2,105,604                   |
| Cost (dollars).....                      | 57,778,341                        | 403,321,998                | 176,449,773                    | 35,026,227                     | 78,739,068               | 505,778,803            | 52,580,293                  |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                          | —                              | —                              | 43,130                   | —                      | —                           |
| Demand.....                              | —                                 | 86,209,768                 | 104,765,589                    | —                              | 12,415,792               | —                      | —                           |
| Energy.....                              | 55,590,211                        | 317,112,230                | 71,684,184                     | 33,111,185                     | 66,280,146               | 397,068,130            | 52,571,044                  |
| Other <sup>2</sup> .....                 | 2,188,130                         | —                          | —                              | 1,915,042                      | —                        | 108,710,673            | 9,249                       |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Maine                   | Maine                                     | Maryland                             | Maryland                    | Maryland           | Maryland          | Massachusetts    |
|--|-------------------------|---|--------------------------------------|-----------------------------|--------------------|-------------------|------------------|
|  | Maine Public Service Co | Maine Yankee Atomic Power Co <sup>5</sup> | Allegheny Generating Co <sup>5</sup> | Baltimore Gas & Electric Co | Conowingo Power Co | Potomac Edison Co | Boston Edison Co |
| <b>Investor-Owned</b>                    |                         |   |                                      |                             |                    |                   |                  |
| Purchases (thousand kWh)                 | 355,409                 | —   | —                                    | 2,367,028                   | —                  | 4,506,918         | 1,815,878        |
| Cost (dollars).....                      | 12,713,723              | —   | —                                    | 89,115,456                  | —                  | 187,238,402       | 89,895,223       |
| Demand Charge Only <sup>1</sup> .....    | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Demand.....                              | —                       | —   | —                                    | 48,530,815                  | —                  | 39,071,975        | 52,203,350       |
| Energy.....                              | 3,654,570               | —   | —                                    | 13,427,900                  | —                  | 63,070,792        | 37,691,873       |
| Other <sup>2</sup> .....                 | 9,059,153               | —   | —                                    | 27,156,741                  | —                  | 85,095,635        | —                |
| <b>Federal</b>                           |                         |   |                                      |                             |                    |                   |                  |
| Purchases (thousand kWh)                 | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Cost (dollars).....                      | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Demand Charge Only <sup>1</sup> .....    | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Demand.....                              | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Energy.....                              | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Other <sup>2</sup> .....                 | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| <b>State and Other</b>                   |                         |   |                                      |                             |                    |                   |                  |
| <b>Government</b>                        |                         |   |                                      |                             |                    |                   |                  |
| Purchases (thousand kWh)                 | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Cost (dollars).....                      | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Demand Charge Only <sup>1</sup> .....    | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Demand.....                              | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Energy.....                              | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Other <sup>2</sup> .....                 | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| <b>Municipal</b>                         |                         |   |                                      |                             |                    |                   |                  |
| Purchases (thousand kWh)                 | 480                     | —   | —                                    | —                           | —                  | 374               | —                |
| Cost (dollars).....                      | 14,160                  | —   | —                                    | —                           | —                  | 4,695             | —                |
| Demand Charge Only <sup>1</sup> .....    | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Demand.....                              | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Energy.....                              | 14,160                  | —   | —                                    | —                           | —                  | 4,695             | —                |
| Other <sup>2</sup> .....                 | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| <b>Cooperative</b>                       |                         |   |                                      |                             |                    |                   |                  |
| Purchases (thousand kWh)                 | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Cost (dollars).....                      | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Demand Charge Only <sup>1</sup> .....    | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Demand.....                              | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Energy.....                              | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| Other <sup>2</sup> .....                 | —                       | —   | —                                    | —                           | —                  | —                 | —                |
| <b>Other<sup>3</sup></b>                 |                         |   |                                      |                             |                    |                   |                  |
| Purchases (thousand kWh)                 | 403,240                 | —   | —                                    | 5,193,141                   | —                  | 307,158           | 5,707,048        |
| Cost (dollars).....                      | 21,492,115              | —   | —                                    | 118,865,710                 | —                  | 4,593,051         | 288,311,368      |
| Demand Charge Only <sup>1</sup> .....    | —                       | —   | —                                    | —                           | —                  | 1,529             | —                |
| Demand.....                              | 19,279                  | —   | —                                    | 4,494,087                   | —                  | 13,225            | 60,234,077       |
| Energy.....                              | 20,583,408              | —   | —                                    | 114,371,623                 | —                  | 4,578,297         | 228,077,291      |
| Other <sup>2</sup> .....                 | 889,428                 | —   | —                                    | —                           | —                  | —                 | —                |
| <b>Total</b>                             |                         |   |                                      |                             |                    |                   |                  |
| Purchases (thousand kWh)                 | 759,129                 | —   | —                                    | 7,560,169                   | —                  | 4,814,450         | 7,522,926        |
| Cost (dollars).....                      | 34,219,998              | —   | —                                    | 207,981,166                 | —                  | 191,836,148       | 378,206,591      |
| Demand Charge Only <sup>1</sup> .....    | —                       | —   | —                                    | —                           | —                  | 1,529             | —                |
| Demand.....                              | 19,279                  | —   | —                                    | 53,024,902                  | —                  | 39,085,200        | 112,437,427      |
| Energy.....                              | 24,252,138              | —   | —                                    | 127,799,523                 | —                  | 67,653,784        | 265,769,164      |
| Other <sup>2</sup> .....                 | 9,948,581               | —   | —                                    | 27,156,741                  | —                  | 85,095,635        | —                |

See notes and footnotes at end of table.



**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Massachusetts<br>Cambridge<br>Electric<br>Light<br>Co | Massachusetts<br>Canal<br>Electric<br>Co | Massachusetts<br>Commonwealth<br>Electric<br>Co | Massachusetts<br>Eastern<br>Edison<br>Co <sup>4</sup> | Massachusetts<br>Fitchburg<br>Gas &<br>Electric<br>Lght<br>Co | Massachusetts<br>Great<br>Bay<br>Power<br>Co <sup>5</sup> | Massachusetts<br>Holyoke<br>Power &<br>Electric<br>Co |
|--|---|--|---|---|---|---|---|
| <b>Investor-Owned</b>                    |   |  |   |   |   |   |   |
| Purchases (thousand kWh)                 | 668,301   | —  | 1,954,647                                       | 2,723,815   | 118,978   | —   | 959,225   |
| Cost (dollars).....                      | 39,906,347  | 2,237,550                                | 120,654,217                                     | 184,820,283   | 5,200,285   | —   | 27,242,935  |
| Demand Charge Only <sup>1</sup> .....    | 405,820   | 2,237,550                                | 3,865,347                                       | —   | —   | —   | —   |
| Demand.....                              | 30,769,952  | —  | 84,694,660                                      | 134,216,531   | 3,506,264   | —   | —   |
| Energy.....                              | 8,730,575   | —  | 34,710,912                                      | 50,603,752  | 1,694,021   | —   | 17,612,354  |
| Other <sup>2</sup> .....                 | —   | —  | -2,616,702                                      | —   | —   | —   | 9,630,581   |
| <b>Federal</b>                           |   |  |   |   |   |   |   |
| Purchases (thousand kWh)                 | —   | —  | —   | —   | —   | —   | —   |
| Cost (dollars).....                      | —   | —  | —   | —   | —   | —   | —   |
| Demand Charge Only <sup>1</sup> .....    | —   | —  | —   | —   | —   | —   | —   |
| Demand.....                              | —   | —  | —   | —   | —   | —   | —   |
| Energy.....                              | —   | —  | —   | —   | —   | —   | —   |
| Other <sup>2</sup> .....                 | —   | —  | —   | —   | —   | —   | —   |
| <b>State and Other</b>                   |   |  |   |   |   |   |   |
| <b>Government</b>                        |   |  |   |   |   |   |   |
| Purchases (thousand kWh)                 | —   | —  | —   | —   | —   | —   | —   |
| Cost (dollars).....                      | 12,000  | —  | —   | —   | —   | —   | —   |
| Demand Charge Only <sup>1</sup> .....    | 12,000  | —  | —   | —   | —   | —   | —   |
| Demand.....                              | —   | —  | —   | —   | —   | —   | —   |
| Energy.....                              | —   | —  | —   | —   | —   | —   | —   |
| Other <sup>2</sup> .....                 | —   | —  | —   | —   | —   | —   | —   |
| <b>Municipal</b>                         |   |  |   |   |   |   |   |
| Purchases (thousand kWh)                 | —   | —  | —   | 237   | —   | —   | —   |
| Cost (dollars).....                      | —   | —  | —   | 22,759  | —   | —   | —   |
| Demand Charge Only <sup>1</sup> .....    | —   | —  | —   | —   | —   | —   | —   |
| Demand.....                              | —   | —  | —   | 16,377  | —   | —   | —   |
| Energy.....                              | —   | —  | —   | 6,382   | —   | —   | —   |
| Other <sup>2</sup> .....                 | —   | —  | —   | —   | —   | —   | —   |
| <b>Cooperative</b>                       |   |  |   |   |   |   |   |
| Purchases (thousand kWh)                 | —   | —  | —   | —   | —   | —   | —   |
| Cost (dollars).....                      | —   | —  | —   | —   | —   | —   | —   |
| Demand Charge Only <sup>1</sup> .....    | —   | —  | —   | —   | —   | —   | —   |
| Demand.....                              | —   | —  | —   | —   | —   | —   | —   |
| Energy.....                              | —   | —  | —   | —   | —   | —   | —   |
| Other <sup>2</sup> .....                 | —   | —  | —   | —   | —   | —   | —   |
| <b>Other<sup>3</sup></b>                 |   |  |   |   |   |   |   |
| Purchases (thousand kWh)                 | 754,969   | 269,888                                  | 2,521,147                                       | —   | 355,758   | —   | —   |
| Cost (dollars).....                      | 27,737,623  | 5,645,602                                | 158,955,208                                     | 6   | 17,450,906  | —   | —   |
| Demand Charge Only <sup>1</sup> .....    | —   | —  | 28,000  | —   | —   | —   | —   |
| Demand.....                              | 11,658,944  | 155,781                                  | 68,008,529                                      | —   | 8,550,947   | —   | —   |
| Energy.....                              | 16,742,164  | 5,489,821                                | 89,354,804                                      | 6   | 8,899,959   | —   | —   |
| Other <sup>2</sup> .....                 | -663,485  | —  | 1,563,875                                       | —   | —   | —   | —   |
| <b>Total</b>                             |   |  |   |   |   |   |   |
| Purchases (thousand kWh)                 | 1,423,270   | 269,888                                  | 4,475,794                                       | 2,724,052   | 474,736   | —   | 959,225   |
| Cost (dollars).....                      | 67,655,970  | 7,883,152                                | 279,609,425                                     | 184,843,048   | 22,651,191  | —   | 27,242,935  |
| Demand Charge Only <sup>1</sup> .....    | 417,820   | 2,237,550                                | 3,893,347                                       | —   | —   | —   | —   |
| Demand.....                              | 42,428,896  | 155,781                                  | 152,703,189                                     | 134,232,908   | 12,057,211  | —   | —   |
| Energy.....                              | 25,472,739  | 5,489,821                                | 124,065,716                                     | 50,610,140  | 10,593,980  | —   | 17,612,354  |
| Other <sup>2</sup> .....                 | -663,485  | —  | -1,052,827                                      | —   | —   | —   | 9,630,581   |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Massachusetts<br>Holyoke Water Power Co | Massachusetts<br>Massachusetts Electric Co | Massachusetts<br>Montaup Electric Co | Massachusetts<br>New England Hydro Trans Elec Co <sup>8</sup> | Massachusetts<br>New England Power Co | Massachusetts<br>Western Massachusetts Electric Co | Massachusetts<br>Yankee Atomic Electric Co <sup>8</sup> |
|--|---|--|--------------------------------------|---|---------------------------------------|--|---|
| <b>Investor-Owned</b>                    |   |  |                                      |   |                                       |  |   |
| Purchases (thousand kWh)                 | 956,642                                 | 16,758,972                                 | 2,193,719                            | —   | 3,728,723                             | 1,689,393  | —   |
| Cost (dollars).....                      | 27,129,065                              | 1,120,629,286                              | 114,776,354                          | —   | 190,914,339                           | 59,772,509   | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                       | —  | 25,055                               | —   | —                                     | —  | —   |
| Demand.....                              | —                                       | 572,136,679                                | 85,441,148                           | —   | 25,337,007                            | —  | —   |
| Energy.....                              | 17,576,441                              | 354,866,616                                | 29,310,151                           | —   | 53,252,740                            | 30,409,678   | —   |
| Other <sup>2</sup> .....                 | 9,552,624                               | 193,625,991                                | —                                    | —   | 112,324,592                           | 29,362,831   | —   |
| <b>Federal</b>                           |   |  |                                      |   |                                       |  |   |
| Purchases (thousand kWh)                 | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Cost (dollars).....                      | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand.....                              | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Energy.....                              | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Other <sup>2</sup> .....                 | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| <b>State and Other</b>                   |   |  |                                      |   |                                       |  |   |
| <b>Government</b>                        |   |  |                                      |   |                                       |  |   |
| Purchases (thousand kWh)                 | —                                       | —  | 12                                   | —   | —                                     | 32,495   | —   |
| Cost (dollars).....                      | —                                       | —  | 10,600                               | —   | —                                     | 947,263  | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand.....                              | —                                       | —  | 10,000                               | —   | —                                     | —  | —   |
| Energy.....                              | —                                       | —  | 600                                  | —   | —                                     | 947,263  | —   |
| Other <sup>2</sup> .....                 | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| <b>Municipal</b>                         |   |  |                                      |   |                                       |  |   |
| Purchases (thousand kWh)                 | —                                       | 417  | 76,390                               | —   | —                                     | 2,235  | —   |
| Cost (dollars).....                      | —                                       | 42,523                                     | 6,556,153                            | —   | —                                     | 99,620   | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand.....                              | —                                       | —  | 4,102,521                            | —   | —                                     | —  | —   |
| Energy.....                              | —                                       | 42,523                                     | 2,453,632                            | —   | —                                     | 99,620   | —   |
| Other <sup>2</sup> .....                 | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| <b>Cooperative</b>                       |   |  |                                      |   |                                       |  |   |
| Purchases (thousand kWh)                 | —                                       | —  | —                                    | —   | —                                     | 3,771  | —   |
| Cost (dollars).....                      | —                                       | —  | —                                    | —   | —                                     | 75,510   | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand.....                              | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Energy.....                              | —                                       | —  | —                                    | —   | —                                     | 75,510   | —   |
| Other <sup>2</sup> .....                 | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| <b>Other<sup>3</sup></b>                 |   |  |                                      |   |                                       |  |   |
| Purchases (thousand kWh)                 | 33,738                                  | 1,666                                      | 1,371,821                            | —   | 5,185,287                             | 2,197,238  | —   |
| Cost (dollars).....                      | 1,059,428                               | 37,031                                     | 56,199,214                           | —   | 317,995,448                           | 81,144,693   | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                       | —  | 558,273                              | —   | —                                     | —  | —   |
| Demand.....                              | —                                       | —  | 28,566,546                           | —   | 22,587,024                            | —  | —   |
| Energy.....                              | 1,058,662                               | 37,031                                     | 27,074,395                           | —   | 258,263,241                           | 85,619,334   | —   |
| Other <sup>2</sup> .....                 | 766                                     | —  | —                                    | —   | 37,145,183                            | -4,474,641   | —   |
| <b>Total</b>                             |   |  |                                      |   |                                       |  |   |
| Purchases (thousand kWh)                 | 990,380                                 | 16,761,055                                 | 3,641,942                            | —   | 8,914,010                             | 3,925,132  | —   |
| Cost (dollars).....                      | 28,188,493                              | 1,120,708,840                              | 177,542,321                          | —   | 508,909,787                           | 142,039,595  | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                       | —  | 583,328                              | —   | —                                     | —  | —   |
| Demand.....                              | —                                       | 572,136,679                                | 118,120,215                          | —   | 47,924,031                            | —  | —   |
| Energy.....                              | 18,635,103                              | 354,946,170                                | 58,838,778                           | —   | 311,515,981                           | 117,151,405  | —   |
| Other <sup>2</sup> .....                 | 9,553,390                               | 193,625,991                                | —                                    | —   | 149,469,775                           | 24,888,190   | —   |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Michigan           | Michigan          | Michigan                 | Michigan                 | Michigan                                  | Minnesota                  | Minnesota                |
|--|--------------------|-------------------|--------------------------|--------------------------|---|----------------------------|--------------------------|
|  | Consumers Power Co | Detroit Edison Co | Edison Sault Electric Co | Upper Peninsula Power Co | Wolverine Hydroelectric Corp <sup>5</sup> | Minnesota Power & Light Co | Northern States Power Co |
| <b>Investor-Owned</b>                    |                    |                   |                          |                          |   |                            |                          |
| Purchases (thousand kWh)                 | 3,769,741          | 3,264,600         | 313,682                  | 744,318                  | —   | 144,058                    | 1,548,809                |
| Cost (dollars).....                      | 89,489,848         | 65,875,215        | 13,699,220               | 18,621,258               | —   | 2,026,741                  | 72,487,467               |
| Demand Charge Only <sup>1</sup> .....    | —                  | 120,893           | —                        | —                        | —   | —                          | —                        |
| Demand.....                              | 27,344,896         | 6,896,205         | 4,852,252                | 5,636,451                | —   | 4,195                      | 3,375,453                |
| Energy.....                              | 62,181,958         | 58,858,117        | 7,634,089                | 12,998,154               | —   | 2,022,546                  | 23,563,013               |
| Other <sup>2</sup> .....                 | -37,006            | —                 | 1,212,879                | -13,347                  | —   | —                          | 45,549,001               |
| <b>Federal</b>                           |                    |                   |                          |                          |   |                            |                          |
| Purchases (thousand kWh)                 | —                  | —                 | 130,475                  | —                        | —   | 1,912,497                  | 252,332                  |
| Cost (dollars).....                      | —                  | —                 | 1,641,557                | —                        | —   | 21,439,602                 | 4,174,439                |
| Demand Charge Only <sup>1</sup> .....    | —                  | —                 | —                        | —                        | —   | —                          | —                        |
| Demand.....                              | —                  | —                 | —                        | —                        | —   | —                          | —                        |
| Energy.....                              | —                  | —                 | 1,641,557                | —                        | —   | 21,439,602                 | 4,158,783                |
| Other <sup>2</sup> .....                 | —                  | —                 | —                        | —                        | —   | —                          | 15,656                   |
| <b>State and Other</b>                   |                    |                   |                          |                          |   |                            |                          |
| <b>Government</b>                        |                    |                   |                          |                          |   |                            |                          |
| Purchases (thousand kWh)                 | 9,739              | 21,977            | —                        | —                        | —   | 253,926                    | 406,834                  |
| Cost (dollars).....                      | 41,787             | 293,755           | —                        | —                        | —   | 3,268,129                  | 13,704,353               |
| Demand Charge Only <sup>1</sup> .....    | —                  | —                 | —                        | —                        | —   | —                          | —                        |
| Demand.....                              | —                  | —                 | —                        | —                        | —   | —                          | 8,101,967                |
| Energy.....                              | 41,787             | 293,755           | —                        | —                        | —   | 3,268,129                  | 5,547,786                |
| Other <sup>2</sup> .....                 | —                  | —                 | —                        | —                        | —   | —                          | 54,600                   |
| <b>Municipal</b>                         |                    |                   |                          |                          |   |                            |                          |
| Purchases (thousand kWh)                 | -1,046             | 468               | —                        | 1,427                    | —   | 4,036                      | 27,604                   |
| Cost (dollars).....                      | —                  | —                 | —                        | 54,226                   | —   | 161,439                    | 610,858                  |
| Demand Charge Only <sup>1</sup> .....    | —                  | —                 | —                        | —                        | —   | 40,500                     | —                        |
| Demand.....                              | —                  | —                 | —                        | —                        | —   | —                          | —                        |
| Energy.....                              | —                  | —                 | —                        | 54,226                   | —   | 120,939                    | 607,471                  |
| Other <sup>2</sup> .....                 | —                  | —                 | —                        | —                        | —   | —                          | 3,387                    |
| <b>Cooperative</b>                       |                    |                   |                          |                          |   |                            |                          |
| Purchases (thousand kWh)                 | —                  | —                 | 8                        | —                        | —   | 3,044,004                  | 766,208                  |
| Cost (dollars).....                      | —                  | —                 | 749                      | —                        | —   | 67,998,537                 | 25,745,239               |
| Demand Charge Only <sup>1</sup> .....    | —                  | —                 | —                        | —                        | —   | —                          | —                        |
| Demand.....                              | —                  | —                 | —                        | —                        | —   | 41,119,955                 | 16,212,838               |
| Energy.....                              | —                  | —                 | 749                      | —                        | —   | 26,878,582                 | 9,516,310                |
| Other <sup>2</sup> .....                 | —                  | —                 | —                        | —                        | —   | —                          | 16,091                   |
| <b>Other<sup>3</sup></b>                 |                    |                   |                          |                          |   |                            |                          |
| Purchases (thousand kWh)                 | 12,606,307         | 1,862,318         | 168,828                  | 11,390                   | —   | 1,520,652                  | 6,244,510                |
| Cost (dollars).....                      | 701,479,727        | 64,859,729        | 3,503,040                | 172,663                  | —   | 20,155,779                 | 168,570,914              |
| Demand Charge Only <sup>1</sup> .....    | —                  | —                 | —                        | —                        | —   | —                          | —                        |
| Demand.....                              | 446,119,155        | 8,821,441         | 780,000                  | —                        | —   | 2,231,222                  | 72,055,343               |
| Energy.....                              | 256,153,574        | 52,306,957        | 2,723,040                | 172,663                  | —   | 17,924,557                 | 96,117,253               |
| Other <sup>2</sup> .....                 | -793,002           | 3,731,331         | —                        | —                        | —   | —                          | 398,318                  |
| <b>Total</b>                             |                    |                   |                          |                          |   |                            |                          |
| Purchases (thousand kWh)                 | 16,384,741         | 5,149,363         | 612,993                  | 757,135                  | —   | 6,879,173                  | 9,246,297                |
| Cost (dollars).....                      | 791,011,362        | 131,028,699       | 18,844,566               | 18,848,147               | —   | 115,050,227                | 285,293,270              |
| Demand Charge Only <sup>1</sup> .....    | —                  | 120,893           | —                        | —                        | —   | 40,500                     | —                        |
| Demand.....                              | 473,464,051        | 15,717,646        | 5,632,252                | 5,636,451                | —   | 43,355,372                 | 99,745,601               |
| Energy.....                              | 318,377,319        | 111,458,829       | 11,999,435               | 13,225,043               | —   | 71,654,355                 | 139,510,616              |
| Other <sup>2</sup> .....                 | -830,008           | 3,731,331         | 1,212,879                | -13,347                  | —   | —                          | 46,037,053               |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Minnesota           | Mississippi                  | Mississippi          | Mississippi                               | Missouri                    | Missouri                     | Missouri                   |
|--|---------------------|------------------------------|----------------------|---|-----------------------------|------------------------------|----------------------------|
|  | Otter Tail Power Co | Mississippi Power & Light Co | Mississippi Power Co | Systems Energy Resources Inc <sup>5</sup> | Empire District Electric Co | Kansas City Power & Light Co | St Joseph Light & Power Co |
| <b>Investor-Owned</b>                    |                     |                              |                      |   |                             |                              |                            |
| Purchases (thousand kWh)                 | 68,321              | 3,184,985                    | 66,145               | —   | 919,803                     | 734,345                      | 148,151                    |
| Cost (dollars).....                      | 1,282,905           | 225,689,833                  | 2,009,327            | —   | 20,801,071                  | 14,148,365                   | 2,930,521                  |
| Demand Charge Only <sup>1</sup> .....    | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand.....                              | —                   | 203,368,496                  | 10,189               | —   | 5,559,857                   | —                            | —                          |
| Energy.....                              | 1,282,905           | 22,321,337                   | 1,999,138            | —   | 15,194,720                  | 13,348,365                   | 2,930,521                  |
| Other <sup>2</sup> .....                 | —                   | —                            | —                    | —   | 46,494                      | 800,000                      | —                          |
| <b>Federal</b>                           |                     |                              |                      |   |                             |                              |                            |
| Purchases (thousand kWh)                 | 237,036             | 1,006,980                    | 25,315               | —   | —                           | —                            | —                          |
| Cost (dollars).....                      | 3,309,755           | 20,637,841                   | 590,742              | —   | —                           | —                            | —                          |
| Demand Charge Only <sup>1</sup> .....    | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand.....                              | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Energy.....                              | 3,309,755           | 20,637,841                   | 590,742              | —   | —                           | —                            | —                          |
| Other <sup>2</sup> .....                 | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| <b>State and Other</b>                   |                     |                              |                      |   |                             |                              |                            |
| <b>Government</b>                        |                     |                              |                      |   |                             |                              |                            |
| Purchases (thousand kWh)                 | 239,534             | 39                           | 4,888                | —   | 47,461                      | 106,162                      | 307,265                    |
| Cost (dollars).....                      | 3,283,938           | 1,405                        | 128,809              | —   | 773,874                     | 1,856,258                    | 6,022,091                  |
| Demand Charge Only <sup>1</sup> .....    | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand.....                              | —                   | —                            | —                    | —   | 338,688                     | —                            | 1,220,000                  |
| Energy.....                              | 3,283,938           | 1,405                        | 128,809              | —   | 435,186                     | 1,856,258                    | 4,802,091                  |
| Other <sup>2</sup> .....                 | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| <b>Municipal</b>                         |                     |                              |                      |   |                             |                              |                            |
| Purchases (thousand kWh)                 | 159,252             | 43,584                       | 2,012                | —   | 125,757                     | 30,138                       | 18,216                     |
| Cost (dollars).....                      | 2,390,566           | 837,623                      | 65,653               | —   | 1,883,637                   | 3,334,474                    | 237,100                    |
| Demand Charge Only <sup>1</sup> .....    | —                   | —                            | —                    | —   | —                           | 992,250                      | —                          |
| Demand.....                              | —                   | —                            | —                    | —   | 1,315,440                   | 46,705                       | —                          |
| Energy.....                              | 2,390,566           | 837,623                      | 65,653               | —   | 568,197                     | 853,919                      | 237,100                    |
| Other <sup>2</sup> .....                 | —                   | —                            | —                    | —   | —                           | 1,441,600                    | —                          |
| <b>Cooperative</b>                       |                     |                              |                      |   |                             |                              |                            |
| Purchases (thousand kWh)                 | 206,731             | 482,373                      | 10,886               | —   | 560,674                     | 290,773                      | 11,220                     |
| Cost (dollars).....                      | 4,824,569           | 8,537,561                    | 164,172              | —   | 18,409,497                  | 31,569,919                   | 336,610                    |
| Demand Charge Only <sup>1</sup> .....    | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand.....                              | 1,174,671           | —                            | —                    | —   | 7,082,740                   | —                            | —                          |
| Energy.....                              | 3,649,898           | 8,537,561                    | 164,172              | —   | 11,326,757                  | 8,782,419                    | 336,610                    |
| Other <sup>2</sup> .....                 | —                   | —                            | —                    | —   | —                           | 22,787,500                   | —                          |
| <b>Other<sup>3</sup></b>                 |                     |                              |                      |   |                             |                              |                            |
| Purchases (thousand kWh)                 | 768,587             | 722,743                      | 2,123,427            | —   | 314,696                     | 59,525                       | 17,582                     |
| Cost (dollars).....                      | 13,286,407          | 17,107,753                   | 48,246,268           | —   | 5,456,128                   | 1,574,657                    | 385,433                    |
| Demand Charge Only <sup>1</sup> .....    | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand.....                              | 1,681,107           | —                            | 4,090,615            | —   | —                           | —                            | 91,686                     |
| Energy.....                              | 11,605,300          | 17,107,753                   | 44,152,698           | —   | 5,440,778                   | 1,574,657                    | 293,747                    |
| Other <sup>2</sup> .....                 | —                   | —                            | 2,955                | —   | 15,350                      | —                            | —                          |
| <b>Total</b>                             |                     |                              |                      |   |                             |                              |                            |
| Purchases (thousand kWh)                 | 1,679,461           | 5,440,704                    | 2,232,673            | —   | 1,968,391                   | 1,220,943                    | 502,434                    |
| Cost (dollars).....                      | 28,378,140          | 272,812,016                  | 51,204,971           | —   | 47,324,207                  | 52,483,673                   | 9,911,755                  |
| Demand Charge Only <sup>1</sup> .....    | —                   | —                            | —                    | —   | —                           | 992,250                      | —                          |
| Demand.....                              | 2,855,778           | 203,368,496                  | 4,100,804            | —   | 14,296,725                  | 46,705                       | 1,311,686                  |
| Energy.....                              | 25,522,362          | 69,443,520                   | 47,101,212           | —   | 32,965,638                  | 26,415,618                   | 8,600,069                  |
| Other <sup>2</sup> .....                 | —                   | —                            | 2,955                | —   | 61,844                      | 25,029,100                   | —                          |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Missouri          | Missouri             | Montana          | Nevada          | Nevada                  | New Hampshire                    | New Hampshire                               |
|--|-------------------|----------------------|------------------|-----------------|-------------------------|----------------------------------|---|
|  | Union Electric Co | UtiliCorp United Inc | Montana Power Co | Nevada Power Co | Sierra Pacific Power Co | Concord Electric Co <sup>4</sup> | Connecticut Valley Electric Co <sup>4</sup> |
| <b>Investor-Owned</b>                    |                   |                      |                  |                 |                         |                                  |   |
| Purchases (thousand kWh)                 | 7,906,023         | 2,773,707            | 662,288          | 2,427,819       | 2,509,712               | 507,338                          | 128,899                                     |
| Cost (dollars).....                      | 149,017,017       | 76,692,128           | 10,830,103       | 59,038,411      | 65,541,214              | 34,800,717                       | 10,536,583                                  |
| Demand Charge Only <sup>1</sup> .....    | —                 | —                    | —                | —               | —                       | —                                | —   |
| Demand.....                              | 40,383,872        | 31,764,781           | —                | 19,004,200      | 27,876,000              | 17,259,687                       | 7,654,596                                   |
| Energy.....                              | 108,633,145       | 47,151,169           | 10,782,103       | 40,038,502      | 37,417,430              | 8,183,978                        | 2,417,748                                   |
| Other <sup>2</sup> .....                 | —                 | -2,223,822           | 48,000           | -4,291          | 247,784                 | 9,357,052                        | 464,239                                     |
| <b>Federal</b>                           |                   |                      |                  |                 |                         |                                  |   |
| Purchases (thousand kWh)                 | 521,545           | 37,125               | 949,541          | 313,638         | 28,586                  | —                                | —   |
| Cost (dollars).....                      | 11,763,876        | 510,122              | 18,127,691       | 4,946,381       | 385,564                 | —                                | —   |
| Demand Charge Only <sup>1</sup> .....    | —                 | —                    | —                | —               | —                       | —                                | —   |
| Demand.....                              | 173,500           | —                    | —                | —               | —                       | —                                | —   |
| Energy.....                              | 11,590,376        | 500,522              | 18,091,493       | 4,614,217       | 385,564                 | —                                | —   |
| Other <sup>2</sup> .....                 | —                 | 9,600                | 36,198           | 332,164         | —                       | —                                | —   |
| <b>State and Other</b>                   |                   |                      |                  |                 |                         |                                  |   |
| <b>Government</b>                        |                   |                      |                  |                 |                         |                                  |   |
| Purchases (thousand kWh)                 | —                 | 275,444              | 1,746            | 1,574,722       | 46,880                  | —                                | —   |
| Cost (dollars).....                      | —                 | 3,527,241            | 29,637           | 29,326,539      | 1,937,445               | —                                | —   |
| Demand Charge Only <sup>1</sup> .....    | —                 | —                    | —                | —               | —                       | —                                | —   |
| Demand.....                              | —                 | —                    | —                | 4,379,261       | —                       | —                                | —   |
| Energy.....                              | —                 | 3,527,241            | 29,637           | 23,686,152      | 1,937,445               | —                                | —   |
| Other <sup>2</sup> .....                 | —                 | —                    | —                | 1,261,126       | —                       | —                                | —   |
| <b>Municipal</b>                         |                   |                      |                  |                 |                         |                                  |   |
| Purchases (thousand kWh)                 | 8,047             | 26,561               | 27,408           | 145,215         | 214,327                 | —                                | 2,061                                       |
| Cost (dollars).....                      | 110,247           | 494,810              | 439,324          | 6,906,694       | 1,568,282               | —                                | 169,593                                     |
| Demand Charge Only <sup>1</sup> .....    | —                 | —                    | —                | —               | —                       | —                                | —   |
| Demand.....                              | —                 | —                    | 6,877            | 2,878,186       | —                       | —                                | 32,509                                      |
| Energy.....                              | 110,247           | 474,785              | 432,447          | 4,028,508       | 1,568,282               | —                                | 137,084                                     |
| Other <sup>2</sup> .....                 | —                 | 20,025               | —                | —               | —                       | —                                | —   |
| <b>Cooperative</b>                       |                   |                      |                  |                 |                         |                                  |   |
| Purchases (thousand kWh)                 | 59,498            | 124,280              | 183,950          | 7,005           | 133,255                 | —                                | —   |
| Cost (dollars).....                      | 2,110,390         | 10,422,008           | 4,756,440        | 183,685         | 6,573,216               | —                                | —   |
| Demand Charge Only <sup>1</sup> .....    | —                 | 25,000               | —                | —               | —                       | —                                | —   |
| Demand.....                              | 686,006           | 7,207,993            | —                | —               | 4,593,000               | —                                | —   |
| Energy.....                              | 1,424,384         | 3,189,015            | 3,756,040        | 183,685         | 1,980,216               | —                                | —   |
| Other <sup>2</sup> .....                 | —                 | —                    | 1,000,400        | —               | —                       | —                                | —   |
| <b>Other<sup>3</sup></b>                 |                   |                      |                  |                 |                         |                                  |   |
| Purchases (thousand kWh)                 | 410,027           | 284,900              | 822,834          | 2,685,605       | 880,079                 | —                                | 38,085                                      |
| Cost (dollars).....                      | 13,162,460        | 4,989,662            | 31,217,631       | 163,467,040     | 44,121,018              | —                                | 3,970,060                                   |
| Demand Charge Only <sup>1</sup> .....    | —                 | —                    | —                | 13,431,600      | —                       | —                                | —   |
| Demand.....                              | 947,866           | 353,392              | 6,974,532        | 81,202,602      | 2,543,803               | —                                | —   |
| Energy.....                              | 12,214,594        | 4,663,285            | 24,285,597       | 67,496,244      | 41,163,813              | —                                | 3,970,060                                   |
| Other <sup>2</sup> .....                 | —                 | -27,015              | -42,498          | 1,336,594       | 413,402                 | —                                | —   |
| <b>Total</b>                             |                   |                      |                  |                 |                         |                                  |   |
| Purchases (thousand kWh)                 | 8,905,140         | 3,522,017            | 2,647,767        | 7,154,004       | 3,812,839               | 507,338                          | 169,045                                     |
| Cost (dollars).....                      | 176,163,990       | 96,635,971           | 65,400,826       | 263,868,750     | 120,126,739             | 34,800,717                       | 14,676,236                                  |
| Demand Charge Only <sup>1</sup> .....    | —                 | 25,000               | —                | 13,431,600      | —                       | —                                | —   |
| Demand.....                              | 42,191,244        | 39,326,166           | 6,981,409        | 107,464,249     | 35,012,803              | 17,259,687                       | 7,687,105                                   |
| Energy.....                              | 133,972,746       | 59,506,017           | 57,377,317       | 140,047,308     | 84,452,750              | 8,183,978                        | 6,524,892                                   |
| Other <sup>2</sup> .....                 | —                 | -2,221,212           | 1,042,100        | 2,925,593       | 661,186                 | 9,357,052                        | 464,239                                     |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | New Hampshire<br>Exeter & Hampton Electric Co <sup>4</sup> | New Hampshire<br>Granite State Electric Co <sup>4</sup> | New Hampshire<br>New England Trans Corp <sup>8</sup> | New Hampshire<br>New England Hydro-Trans Corp <sup>8</sup> | New Hampshire<br>North Atlantic Energy Corp <sup>5</sup> | New Hampshire<br>Public Service Co of NH | New Hampshire<br>Unitil Power Corp |
|--|--|---|--|--|--|--|------------------------------------|
| <b>Investor-Owned</b>                    |  |   |  |  |  |  |                                    |
| Purchases (thousand kWh)                 | 546,115  | 732,572   | —  | —  | —  | 6,123,054                                | —                                  |
| Cost (dollars).....                      | 37,756,731   | 47,135,648  | —  | —  | —  | 241,309,225                              | —                                  |
| Demand Charge Only <sup>1</sup> .....    | —  | —   | —  | —  | —  | —  | —                                  |
| Demand.....                              | 18,887,921   | 23,062,690  | —  | —  | —  | —  | —                                  |
| Energy.....                              | 8,792,260  | 15,645,830  | —  | —  | —  | 65,940,049                               | —                                  |
| Other <sup>2</sup> .....                 | 10,076,550   | 8,427,128   | —  | —  | —  | 175,369,176                              | —                                  |
| <b>Federal</b>                           |  |   |  |  |  |  |                                    |
| Purchases (thousand kWh)                 | —  | —   | —  | —  | —  | —  | —                                  |
| Cost (dollars).....                      | —  | —   | —  | —  | —  | —  | —                                  |
| Demand Charge Only <sup>1</sup> .....    | —  | —   | —  | —  | —  | —  | —                                  |
| Demand.....                              | —  | —   | —  | —  | —  | —  | —                                  |
| Energy.....                              | —  | —   | —  | —  | —  | —  | —                                  |
| Other <sup>2</sup> .....                 | —  | —   | —  | —  | —  | —  | —                                  |
| <b>State and Other</b>                   |  |   |  |  |  |  |                                    |
| <b>Government</b>                        |  |   |  |  |  |  |                                    |
| Purchases (thousand kWh)                 | —  | —   | —  | —  | —  | 39,925                                   | —                                  |
| Cost (dollars).....                      | —  | —   | —  | —  | —  | 1,271,767                                | —                                  |
| Demand Charge Only <sup>1</sup> .....    | —  | —   | —  | —  | —  | —  | —                                  |
| Demand.....                              | —  | —   | —  | —  | —  | —  | —                                  |
| Energy.....                              | —  | —   | —  | —  | —  | 1,271,767                                | —                                  |
| Other <sup>2</sup> .....                 | —  | —   | —  | —  | —  | —  | —                                  |
| <b>Municipal</b>                         |  |   |  |  |  |  |                                    |
| Purchases (thousand kWh)                 | —  | —   | —  | —  | —  | 9,679                                    | —                                  |
| Cost (dollars).....                      | —  | —   | —  | —  | —  | 725,065                                  | —                                  |
| Demand Charge Only <sup>1</sup> .....    | —  | —   | —  | —  | —  | —  | —                                  |
| Demand.....                              | —  | —   | —  | —  | —  | —  | —                                  |
| Energy.....                              | —  | —   | —  | —  | —  | 725,065                                  | —                                  |
| Other <sup>2</sup> .....                 | —  | —   | —  | —  | —  | —  | —                                  |
| <b>Cooperative</b>                       |  |   |  |  |  |  |                                    |
| Purchases (thousand kWh)                 | —  | —   | —  | —  | —  | 220,543                                  | —                                  |
| Cost (dollars).....                      | —  | —   | —  | —  | —  | 12,343,088                               | —                                  |
| Demand Charge Only <sup>1</sup> .....    | —  | —   | —  | —  | —  | —  | —                                  |
| Demand.....                              | —  | —   | —  | —  | —  | —  | —                                  |
| Energy.....                              | —  | —   | —  | —  | —  | 1,022,311                                | —                                  |
| Other <sup>2</sup> .....                 | —  | —   | —  | —  | —  | 11,320,777                               | —                                  |
| <b>Other<sup>3</sup></b>                 |  |   |  |  |  |  |                                    |
| Purchases (thousand kWh)                 | —  | 1,085   | —  | —  | —  | 3,112,435                                | —                                  |
| Cost (dollars).....                      | —  | 27,165  | —  | —  | —  | 138,011,628                              | —                                  |
| Demand Charge Only <sup>1</sup> .....    | —  | —   | —  | —  | —  | —  | —                                  |
| Demand.....                              | —  | —   | —  | —  | —  | —  | —                                  |
| Energy.....                              | —  | 27,165  | —  | —  | —  | 138,011,628                              | —                                  |
| Other <sup>2</sup> .....                 | —  | —   | —  | —  | —  | —  | —                                  |
| <b>Total</b>                             |  |   |  |  |  |  |                                    |
| Purchases (thousand kWh)                 | 546,115  | 733,657   | —  | —  | —  | 9,505,636                                | —                                  |
| Cost (dollars).....                      | 37,756,731   | 47,162,813  | —  | —  | —  | 393,660,773                              | —                                  |
| Demand Charge Only <sup>1</sup> .....    | —  | —   | —  | —  | —  | —  | —                                  |
| Demand.....                              | 18,887,921   | 23,062,690  | —  | —  | —  | —  | —                                  |
| Energy.....                              | 8,792,260  | 15,672,995  | —  | —  | —  | 206,970,820                              | —                                  |
| Other <sup>2</sup> .....                 | 10,076,550   | 8,427,128   | —  | —  | —  | 186,689,953                              | —                                  |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | New Jersey<br>Atlantic City<br>Electric<br>Co | New Jersey<br>Jersey<br>Central<br>Power &<br>Light<br>Co | New Jersey<br>Public<br>Service<br>Electric &<br>Gas<br>Co | New Jersey<br>Rockland<br>Electric<br>Co <sup>4</sup> | New Mexico<br>Public<br>Service<br>Co of NM | New Mexico<br>Texas-<br>New Mexico<br>Power<br>Co <sup>4</sup> | New York<br>Central<br>Hudson<br>Gas &<br>Electric<br>Corp |
|--|---|---|--|---|---|--|--|
| <b>Investor-Owned</b>                    |   |   |  |   |   |  |  |
| Purchases (thousand kWh)                 | 1,761,459                                     | 4,667,637   | 4,870,951  | 1,395,174   | 839,636                                     | —  | 929,284  |
| Cost (dollars).....                      | 61,692,346                                    | 193,568,103   | 304,228,087  | 69,588,233  | 29,126,348                                  | —  | 18,795,951   |
| Demand Charge Only <sup>1</sup> .....    | —   | 1,301,022   | —  | —   | —   | —  | —  |
| Demand.....                              | —   | 134,860,057   | 48,861,651   | 22,421,022  | 14,040,000                                  | —  | 956,822  |
| Energy.....                              | 32,184,457                                    | 57,601,643  | 255,366,436  | 46,076,887  | 15,022,820                                  | —  | 17,839,129   |
| Other <sup>2</sup> .....                 | 29,507,889                                    | -194,619  | —  | 1,090,324   | 63,528                                      | —  | —  |
| <b>Federal</b>                           |   |   |  |   |   |  |  |
| Purchases (thousand kWh)                 | —   | —   | —  | —   | 39,299                                      | —  | —  |
| Cost (dollars).....                      | —   | —   | —  | —   | 512,586                                     | —  | —  |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —  | —   | —   | —  | —  |
| Demand.....                              | —   | —   | —  | —   | —   | —  | —  |
| Energy.....                              | —   | —   | —  | —   | 450,711                                     | —  | —  |
| Other <sup>2</sup> .....                 | —   | —   | —  | —   | 61,875                                      | —  | —  |
| <b>State and Other</b>                   |   |   |  |   |   |  |  |
| <b>Government</b>                        |   |   |  |   |   |  |  |
| Purchases (thousand kWh)                 | —   | —   | —  | —   | 65,125                                      | —  | 578,145  |
| Cost (dollars).....                      | —   | —   | —  | —   | 944,574                                     | —  | 13,127,490   |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —  | —   | —   | —  | 1,350,521  |
| Demand.....                              | —   | —   | —  | —   | —   | —  | 32,715   |
| Energy.....                              | —   | —   | —  | —   | 937,246                                     | —  | 11,744,254   |
| Other <sup>2</sup> .....                 | —   | —   | —  | —   | 7,328                                       | —  | —  |
| <b>Municipal</b>                         |   |   |  |   |   |  |  |
| Purchases (thousand kWh)                 | 17,410  | 2,018,771   | —  | —   | 24,026                                      | —  | —  |
| Cost (dollars).....                      | 1,246,516                                     | 118,618,594   | —  | —   | 462,967                                     | —  | —  |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —  | —   | —   | —  | —  |
| Demand.....                              | —   | 1,213   | —  | —   | —   | —  | —  |
| Energy.....                              | 764,552                                       | 118,617,381   | —  | —   | 420,977                                     | —  | —  |
| Other <sup>2</sup> .....                 | 481,964                                       | —   | —  | —   | 41,990                                      | —  | —  |
| <b>Cooperative</b>                       |   |   |  |   |   |  |  |
| Purchases (thousand kWh)                 | —   | —   | —  | —   | 38,475                                      | —  | —  |
| Cost (dollars).....                      | —   | —   | —  | —   | 592,406                                     | —  | —  |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —  | —   | —   | —  | —  |
| Demand.....                              | —   | —   | —  | —   | —   | —  | —  |
| Energy.....                              | —   | —   | —  | —   | 575,748                                     | —  | —  |
| Other <sup>2</sup> .....                 | —   | —   | —  | —   | 16,658                                      | —  | —  |
| <b>Other<sup>3</sup></b>                 |   |   |  |   |   |  |  |
| Purchases (thousand kWh)                 | 4,126,697                                     | 5,355,581   | 15,615,515   | —   | 770,773                                     | —  | 675,452  |
| Cost (dollars).....                      | 278,162,307                                   | 303,833,339   | 338,774,829  | —   | 14,550,124                                  | —  | 19,214,476   |
| Demand Charge Only <sup>1</sup> .....    | —   | —   | —  | —   | —   | —  | —  |
| Demand.....                              | —   | 4,373,724   | —  | —   | —   | —  | 266,430  |
| Energy.....                              | 112,109,038                                   | 296,511,261   | 338,666,787  | —   | 14,562,433                                  | —  | 18,661,329   |
| Other <sup>2</sup> .....                 | 166,053,269                                   | 2,948,354   | 108,042  | —   | -12,309                                     | —  | 286,717  |
| <b>Total</b>                             |   |   |  |   |   |  |  |
| Purchases (thousand kWh)                 | 5,905,566                                     | 12,041,989  | 20,486,466   | 1,395,174   | 1,777,334                                   | —  | 2,182,881  |
| Cost (dollars).....                      | 341,101,169                                   | 616,020,036   | 643,002,916  | 69,588,233  | 46,189,005                                  | —  | 51,137,917   |
| Demand Charge Only <sup>1</sup> .....    | —   | 1,301,022   | —  | —   | —   | —  | 1,350,521  |
| Demand.....                              | —   | 139,234,994   | 48,861,651   | 22,421,022  | 14,040,000                                  | —  | 1,255,967  |
| Energy.....                              | 145,058,047                                   | 472,730,285   | 594,033,223  | 46,076,887  | 31,969,935                                  | —  | 48,244,712   |
| Other <sup>2</sup> .....                 | 196,043,122                                   | 2,753,735   | 108,042  | 1,090,324   | 179,070                                     | —  | 286,717  |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | New York<br>Consolidated Edison Co-NY Inc | New York<br>Long Island Lighting Co | New York<br>Long Sault Inc <sup>6</sup> | New York<br>New York State Electric & Gas Corp | New York<br>Niagara Mohawk Power Corp | New York<br>Orange & Rockland Utilities Inc | New York<br>Rochester Gas & Electric Corp |
|--|---|-------------------------------------|---|--|---------------------------------------|---|---|
| <b>Investor-Owned</b>                    |   |                                     |   |  |                                       |   |   |
| Purchases (thousand kWh)                 | 5,521,324                                 | 1,119,974                           | —                                       | 178,389  | 136,868                               | 1,413,611                                   | 387,770                                   |
| Cost (dollars).....                      | 121,717,018                               | 24,191,029                          | —                                       | 4,571,055                                      | 2,806,864                             | 35,151,723                                  | 7,475,924                                 |
| Demand Charge Only <sup>1</sup> .....    | —   | —                                   | —                                       | —  | —                                     | 1,718,300                                   | —   |
| Demand.....                              | —   | —                                   | —                                       | —  | 99,280                                | 13  | 615,789                                   |
| Energy.....                              | 121,170,285                               | 24,191,029                          | —                                       | 4,571,055                                      | 2,707,584                             | 33,433,410                                  | 6,860,135                                 |
| Other <sup>2</sup> .....                 | 546,733                                   | —                                   | —                                       | —  | —                                     | —   | —   |
| <b>Federal</b>                           |   |                                     |   |  |                                       |   |   |
| Purchases (thousand kWh)                 | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Cost (dollars).....                      | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand Charge Only <sup>1</sup> .....    | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand.....                              | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Energy.....                              | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Other <sup>2</sup> .....                 | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| <b>State and Other</b>                   |   |                                     |   |  |                                       |   |   |
| <b>Government</b>                        |   |                                     |   |  |                                       |   |   |
| Purchases (thousand kWh)                 | 3,718,047                                 | 1,780,710                           | —                                       | 2,040,982                                      | 7,639,342                             | 346,591                                     | 1,322,636                                 |
| Cost (dollars).....                      | 128,341,374                               | 48,607,283                          | —                                       | 25,464,924                                     | 93,363,893                            | 6,174,605                                   | 23,881,767                                |
| Demand Charge Only <sup>1</sup> .....    | —   | —                                   | —                                       | —  | 7,441,650                             | —   | 4,140,000                                 |
| Demand.....                              | 49,374,030                                | 11,604,000                          | —                                       | 8,737,541                                      | 35,443,361                            | —   | 5,513,020                                 |
| Energy.....                              | 61,370,944                                | 37,003,283                          | —                                       | 14,801,159                                     | 50,478,882                            | 6,174,605                                   | 14,228,747                                |
| Other <sup>2</sup> .....                 | 17,596,400                                | —                                   | —                                       | 1,926,224                                      | —                                     | —   | —   |
| <b>Municipal</b>                         |   |                                     |   |  |                                       |   |   |
| Purchases (thousand kWh)                 | —   | —                                   | —                                       | 17   | 802,914                               | —   | —   |
| Cost (dollars).....                      | —   | —                                   | —                                       | 518  | 56,934,459                            | —   | —   |
| Demand Charge Only <sup>1</sup> .....    | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand.....                              | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Energy.....                              | —   | —                                   | —                                       | 518  | 56,601,373                            | —   | —   |
| Other <sup>2</sup> .....                 | —   | —                                   | —                                       | —  | 333,086                               | —   | —   |
| <b>Cooperative</b>                       |   |                                     |   |  |                                       |   |   |
| Purchases (thousand kWh)                 | —   | —                                   | —                                       | 159  | —                                     | —   | —   |
| Cost (dollars).....                      | —   | —                                   | —                                       | -3,489   | —                                     | —   | —   |
| Demand Charge Only <sup>1</sup> .....    | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand.....                              | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Energy.....                              | —   | —                                   | —                                       | -3,489   | —                                     | —   | —   |
| Other <sup>2</sup> .....                 | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| <b>Other<sup>3</sup></b>                 |   |                                     |   |  |                                       |   |   |
| Purchases (thousand kWh)                 | 17,056,676                                | 4,487,005                           | —                                       | 4,770,536                                      | 14,963,789                            | 1,024,927                                   | 726,959                                   |
| Cost (dollars).....                      | 1,013,192,294                             | 219,615,294                         | —                                       | 327,991,688                                    | 1,033,541,664                         | 32,212,036                                  | 15,026,305                                |
| Demand Charge Only <sup>1</sup> .....    | -6,381,647                                | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand.....                              | 219,083,252                               | 1,053,820                           | —                                       | —  | 212,957,035                           | 415,461                                     | 847,846                                   |
| Energy.....                              | 724,074,519                               | 218,561,474                         | —                                       | 324,324,506                                    | 850,392,453                           | 31,216,853                                  | 14,178,459                                |
| Other <sup>2</sup> .....                 | 76,416,170                                | —                                   | —                                       | 3,667,182                                      | -29,807,824                           | 579,722                                     | —   |
| <b>Total</b>                             |   |                                     |   |  |                                       |   |   |
| Purchases (thousand kWh)                 | 26,296,047                                | 7,387,689                           | —                                       | 6,990,083                                      | 23,542,913                            | 2,785,129                                   | 2,437,365                                 |
| Cost (dollars).....                      | 1,263,250,686                             | 292,413,606                         | —                                       | 358,024,696                                    | 1,186,646,880                         | 73,538,364                                  | 46,383,996                                |
| Demand Charge Only <sup>1</sup> .....    | -6,381,647                                | —                                   | —                                       | —  | 7,441,650                             | 1,718,300                                   | 4,140,000                                 |
| Demand.....                              | 268,457,282                               | 12,657,820                          | —                                       | 8,737,541                                      | 248,499,676                           | 415,474                                     | 6,976,655                                 |
| Energy.....                              | 906,615,748                               | 279,755,786                         | —                                       | 343,693,749                                    | 960,180,292                           | 70,824,868                                  | 35,267,341                                |
| Other <sup>2</sup> .....                 | 94,559,303                                | —                                   | —                                       | 5,593,406                                      | -29,474,738                           | 579,722                                     | —   |

See notes and footnotes at end of table.



**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | North Carolina<br>Carolina Power & Light Co | North Carolina<br>Cascade Power Company <sup>5</sup> | North Carolina<br>Duke Power Co | North Carolina<br>Nantahala Power & Light Co | North Carolina<br>Yadkin Inc <sup>4</sup> | North Dakota<br>MDU Resources Group Inc | Ohio<br>AEP Generating Co |
|--|---|--|---------------------------------|--|---|---|---------------------------|
| <b>Investor-Owned</b>                    |   |  |                                 |  |   |   |                           |
| Purchases (thousand kWh)                 | 3,611,540                                   | —  | 1,527,719                       | 724,000                                      | —   | 290,593                                 | —                         |
| Cost (dollars).....                      | 149,183,585                                 | —  | 33,017,986                      | 31,071,270                                   | —   | 7,805,309                               | —                         |
| Demand Charge Only <sup>1</sup> .....    | 621,978                                     | —  | —                               | —  | —   | —                                       | —                         |
| Demand.....                              | 77,333,636                                  | —  | 610,500                         | 18,324,567                                   | —   | 2,920,244                               | —                         |
| Energy.....                              | 71,358,059                                  | —  | 32,345,383                      | 12,741,703                                   | —   | 4,885,065                               | —                         |
| Other <sup>2</sup> .....                 | -130,088                                    | —  | 62,103                          | 5,000  | —   | —                                       | —                         |
| <b>Federal</b>                           |   |  |                                 |  |   |   |                           |
| Purchases (thousand kWh)                 | 123,591                                     | —  | —                               | 298,005                                      | —   | -44,013                                 | —                         |
| Cost (dollars).....                      | 2,651,515                                   | —  | —                               | 5,073,775                                    | —   | 183,778                                 | —                         |
| Demand Charge Only <sup>1</sup> .....    | —   | —  | —                               | —  | —   | —                                       | —                         |
| Demand.....                              | —   | —  | —                               | —  | —   | —                                       | —                         |
| Energy.....                              | 2,651,515                                   | —  | —                               | 5,073,775                                    | —   | 183,778                                 | —                         |
| Other <sup>2</sup> .....                 | —   | —  | —                               | —  | —   | —                                       | —                         |
| <b>State and Other</b>                   |   |  |                                 |  |   |   |                           |
| <b>Government</b>                        |   |  |                                 |  |   |   |                           |
| Purchases (thousand kWh)                 | 35,620                                      | —  | 69,517                          | —  | —   | 6,742                                   | —                         |
| Cost (dollars).....                      | 883,657                                     | —  | 1,490,344                       | —  | —   | 92,554                                  | —                         |
| Demand Charge Only <sup>1</sup> .....    | —   | —  | —                               | —  | —   | —                                       | —                         |
| Demand.....                              | —   | —  | 15,000                          | —  | —   | —                                       | —                         |
| Energy.....                              | 883,657                                     | —  | 1,475,344                       | —  | —   | 92,554                                  | —                         |
| Other <sup>2</sup> .....                 | —   | —  | —                               | —  | —   | —                                       | —                         |
| <b>Municipal</b>                         |   |  |                                 |  |   |   |                           |
| Purchases (thousand kWh)                 | 602,317                                     | —  | 2,661,535                       | —  | —   | 2,267                                   | —                         |
| Cost (dollars).....                      | 44,471,216                                  | —  | 153,752,542                     | —  | —   | 37,302                                  | —                         |
| Demand Charge Only <sup>1</sup> .....    | —   | —  | —                               | —  | —   | —                                       | —                         |
| Demand.....                              | 33,719,184                                  | —  | 126,901,906                     | —  | —   | —                                       | —                         |
| Energy.....                              | 11,242,226                                  | —  | 25,892,581                      | —  | —   | 37,302                                  | —                         |
| Other <sup>2</sup> .....                 | -490,194                                    | —  | 958,055                         | —  | —   | —                                       | —                         |
| <b>Cooperative</b>                       |   |  |                                 |  |   |   |                           |
| Purchases (thousand kWh)                 | 5,934                                       | —  | 45,370                          | —  | —   | 491,400                                 | —                         |
| Cost (dollars).....                      | 153,725                                     | —  | -1,468,578                      | —  | —   | 14,915,772                              | —                         |
| Demand Charge Only <sup>1</sup> .....    | —   | —  | 16,650                          | —  | —   | —                                       | —                         |
| Demand.....                              | —   | —  | -2,065,000                      | —  | —   | 10,220,581                              | —                         |
| Energy.....                              | 153,725                                     | —  | 581,083                         | —  | —   | 4,695,191                               | —                         |
| Other <sup>2</sup> .....                 | —   | —  | -1,311                          | —  | —   | —                                       | —                         |
| <b>Other<sup>3</sup></b>                 |   |  |                                 |  |   |   |                           |
| Purchases (thousand kWh)                 | 2,917,979                                   | —  | 965,283                         | —  | —   | —                                       | —                         |
| Cost (dollars).....                      | 214,193,977                                 | —  | 33,108,289                      | -451,583                                     | —   | —                                       | —                         |
| Demand Charge Only <sup>1</sup> .....    | —   | —  | —                               | —  | —   | —                                       | —                         |
| Demand.....                              | 53,403,330                                  | —  | 60,600                          | —  | —   | —                                       | —                         |
| Energy.....                              | 160,714,015                                 | —  | 33,047,689                      | —  | —   | —                                       | —                         |
| Other <sup>2</sup> .....                 | 76,632                                      | —  | —                               | -451,583                                     | —   | —                                       | —                         |
| <b>Total</b>                             |   |  |                                 |  |   |   |                           |
| Purchases (thousand kWh)                 | 7,296,981                                   | —  | 5,269,424                       | 1,022,005                                    | —   | 746,989                                 | —                         |
| Cost (dollars).....                      | 411,537,675                                 | —  | 219,900,583                     | 35,693,462                                   | —   | 23,034,715                              | —                         |
| Demand Charge Only <sup>1</sup> .....    | 621,978                                     | —  | 16,650                          | —  | —   | —                                       | —                         |
| Demand.....                              | 164,456,150                                 | —  | 125,523,006                     | 18,324,567                                   | —   | 13,140,825                              | —                         |
| Energy.....                              | 247,003,197                                 | —  | 93,342,080                      | 17,815,478                                   | —   | 9,893,890                               | —                         |
| Other <sup>2</sup> .....                 | -543,650                                    | —  | 1,018,847                       | -446,583                                     | —   | —                                       | —                         |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Ohio<br>Cincinnati Gas & Electric Co | Ohio<br>Cleveland Electric Illuminating Co | Ohio<br>Columbus Southern Power Co | Ohio<br>Dayton Power & Light Co | Ohio<br>Indiana-Kentucky Electric Corp <sup>5</sup> | Ohio<br>Ohio Edison Co | Ohio<br>Ohio Power Co |
|--|--------------------------------------|--|------------------------------------|---------------------------------|---|------------------------|-----------------------|
| <b>Investor-Owned</b>                    |                                      |  |                                    |                                 |   |                        |                       |
| Purchases (thousand kWh)                 | 2,763,066                            | 1,278,403                                  | 338,979                            | 625,240                         | —   | 2,656,821              | 1,304,978             |
| Cost (dollars).....                      | 51,493,822                           | 106,311,329                                | 7,564,734                          | 12,854,195                      | —   | 53,330,949             | 31,286,767            |
| Demand Charge Only <sup>1</sup> .....    | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Demand.....                              | 1,184,083                            | 86,942                                     | 22,267                             | 1,255,523                       | —   | 1,879,958              | 37,123                |
| Energy.....                              | 50,309,739                           | 106,224,387                                | 7,542,467                          | 11,606,412                      | —   | 51,382,225             | 31,249,644            |
| Other <sup>2</sup> .....                 | —                                    | —  | —                                  | -7,740                          | —   | 68,766                 | —                     |
| <b>Federal</b>                           |                                      |  |                                    |                                 |   |                        |                       |
| Purchases (thousand kWh)                 | 1,850                                | —  | 37,920                             | —                               | —   | —                      | 62,834                |
| Cost (dollars).....                      | 59,825                               | —  | 872,789                            | —                               | —   | —                      | 1,456,283             |
| Demand Charge Only <sup>1</sup> .....    | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Demand.....                              | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Energy.....                              | 59,825                               | —  | 872,789                            | —                               | —   | —                      | 1,456,283             |
| Other <sup>2</sup> .....                 | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| <b>State and Other</b>                   |                                      |  |                                    |                                 |   |                        |                       |
| <b>Government</b>                        |                                      |  |                                    |                                 |   |                        |                       |
| Purchases (thousand kWh)                 | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Cost (dollars).....                      | 16,607                               | —  | —                                  | —                               | —   | —                      | —                     |
| Demand Charge Only <sup>1</sup> .....    | 16,607                               | —  | —                                  | —                               | —   | —                      | —                     |
| Demand.....                              | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Energy.....                              | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Other <sup>2</sup> .....                 | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| <b>Municipal</b>                         |                                      |  |                                    |                                 |   |                        |                       |
| Purchases (thousand kWh)                 | 1,781                                | 39,858                                     | 2,152                              | —                               | —   | —                      | 173                   |
| Cost (dollars).....                      | 49,616                               | 263,779                                    | 17,329                             | —                               | —   | —                      | 8,011                 |
| Demand Charge Only <sup>1</sup> .....    | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Demand.....                              | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Energy.....                              | 49,616                               | 263,779                                    | 17,329                             | —                               | —   | —                      | 8,011                 |
| Other <sup>2</sup> .....                 | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| <b>Cooperative</b>                       |                                      |  |                                    |                                 |   |                        |                       |
| Purchases (thousand kWh)                 | 39,652                               | —  | —                                  | 30,750                          | —   | 638,012                | —                     |
| Cost (dollars).....                      | 1,039,426                            | —  | -57                                | 463,268                         | —   | 15,976,956             | 11,658                |
| Demand Charge Only <sup>1</sup> .....    | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Demand.....                              | —                                    | —  | —                                  | —                               | —   | 1,680,900              | —                     |
| Energy.....                              | 1,039,426                            | —  | -57                                | 463,268                         | —   | 14,296,056             | 11,658                |
| Other <sup>2</sup> .....                 | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| <b>Other<sup>3</sup></b>                 |                                      |  |                                    |                                 |   |                        |                       |
| Purchases (thousand kWh)                 | 773,950                              | 331,553                                    | 6,958,035                          | 444,649                         | —   | 309,262                | 3,194,900             |
| Cost (dollars).....                      | 15,595,433                           | 6,934,416                                  | 160,438,755                        | 10,641,545                      | —   | 8,763,663              | 31,105,813            |
| Demand Charge Only <sup>1</sup> .....    | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Demand.....                              | 59,830                               | —  | —                                  | 412,576                         | —   | 383,700                | —                     |
| Energy.....                              | 15,535,603                           | 6,934,416                                  | 160,438,755                        | 10,228,809                      | —   | 8,379,963              | 31,105,813            |
| Other <sup>2</sup> .....                 | —                                    | —  | —                                  | 160                             | —   | —                      | —                     |
| <b>Total</b>                             |                                      |  |                                    |                                 |   |                        |                       |
| Purchases (thousand kWh)                 | 3,580,299                            | 1,649,814                                  | 7,337,086                          | 1,100,639                       | —   | 3,604,095              | 4,562,885             |
| Cost (dollars).....                      | 68,254,729                           | 113,509,524                                | 168,893,550                        | 23,959,008                      | —   | 78,071,568             | 63,868,532            |
| Demand Charge Only <sup>1</sup> .....    | 16,607                               | —  | —                                  | —                               | —   | —                      | —                     |
| Demand.....                              | 1,243,913                            | 86,942                                     | 22,267                             | 1,668,099                       | —   | 3,944,558              | 37,123                |
| Energy.....                              | 66,994,209                           | 113,422,582                                | 168,871,283                        | 22,298,489                      | —   | 74,058,244             | 63,831,409            |
| Other <sup>2</sup> .....                 | —                                    | —  | —                                  | -7,580                          | —   | 68,766                 | —                     |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Ohio                      | Ohio             | Oklahoma                   | Oklahoma                      | Oregon      | Oregon                       | Pennsylvania                      |
|--|---------------------------|------------------|----------------------------|-------------------------------|-------------|------------------------------|-----------------------------------|
|  | Ohio Valley Electric Corp | Toledo Edison Co | Oklahoma Gas & Electric Co | Public Service Co of Oklahoma | PacifiCorp  | Portland General Electric Co | Citizens Electric Co <sup>4</sup> |
| <b>Investor-Owned</b>                    |                           |                  |                            |                               |             |                              |                                   |
| Purchases (thousand kWh)                 | 10,055,053                | 942,528          | 232,015                    | 39,321                        | 5,091,198   | 2,479,911                    | 172,326                           |
| Cost (dollars).....                      | 171,033,440               | 13,987,055       | 4,320,029                  | 1,371,362                     | 91,488,217  | 59,015,092                   | 5,973,229                         |
| Demand Charge Only <sup>1</sup> .....    | —                         | —                | —                          | —                             | —           | 19,404,000                   | —                                 |
| Demand.....                              | —                         | 1,485,602        | —                          | 315,880                       | 15,535,342  | 1,600,000                    | 2,070,906                         |
| Energy.....                              | —                         | 12,480,930       | 4,320,029                  | 1,055,482                     | 75,479,896  | 37,214,920                   | 4,316,284                         |
| Other <sup>2</sup> .....                 | 171,033,440               | 20,523           | —                          | —                             | 472,979     | 796,172                      | -413,961                          |
| <b>Federal</b>                           |                           |                  |                            |                               |             |                              |                                   |
| Purchases (thousand kWh)                 | —                         | —                | —                          | —                             | 4,853,523   | 5,885,061                    | —                                 |
| Cost (dollars).....                      | —                         | —                | —                          | —                             | 126,880,238 | 8,750,374                    | —                                 |
| Demand Charge Only <sup>1</sup> .....    | —                         | —                | —                          | —                             | 78,822,190  | 6,012,963                    | —                                 |
| Demand.....                              | —                         | —                | —                          | —                             | —           | —                            | —                                 |
| Energy.....                              | —                         | —                | —                          | —                             | 48,058,048  | 60,603,974                   | —                                 |
| Other <sup>2</sup> .....                 | —                         | —                | —                          | —                             | —           | -57,866,563                  | —                                 |
| <b>State and Other</b>                   |                           |                  |                            |                               |             |                              |                                   |
| <b>Government</b>                        |                           |                  |                            |                               |             |                              |                                   |
| Purchases (thousand kWh)                 | —                         | —                | 13,139                     | 21,127                        | 5,422,232   | 5,298,238                    | —                                 |
| Cost (dollars).....                      | —                         | —                | 250,836                    | 455,128                       | 60,244,740  | 70,229,247                   | —                                 |
| Demand Charge Only <sup>1</sup> .....    | —                         | —                | —                          | —                             | —           | —                            | —                                 |
| Demand.....                              | —                         | —                | —                          | —                             | 152,293     | —                            | —                                 |
| Energy.....                              | —                         | —                | 250,836                    | 455,128                       | 33,710,965  | 56,323,689                   | —                                 |
| Other <sup>2</sup> .....                 | —                         | —                | —                          | —                             | 26,381,482  | 13,905,558                   | —                                 |
| <b>Municipal</b>                         |                           |                  |                            |                               |             |                              |                                   |
| Purchases (thousand kWh)                 | —                         | —                | —                          | —                             | 1,268,576   | 238,305                      | —                                 |
| Cost (dollars).....                      | —                         | —                | —                          | —                             | 52,018,693  | 3,896,257                    | —                                 |
| Demand Charge Only <sup>1</sup> .....    | —                         | —                | —                          | —                             | —           | 1,023,200                    | —                                 |
| Demand.....                              | —                         | —                | —                          | —                             | 30,108,115  | —                            | —                                 |
| Energy.....                              | —                         | —                | —                          | —                             | 21,910,578  | 2,873,057                    | —                                 |
| Other <sup>2</sup> .....                 | —                         | —                | —                          | —                             | —           | —                            | —                                 |
| <b>Cooperative</b>                       |                           |                  |                            |                               |             |                              |                                   |
| Purchases (thousand kWh)                 | —                         | —                | 131,314                    | 5,128                         | 2,098,264   | —                            | —                                 |
| Cost (dollars).....                      | —                         | —                | 2,895,183                  | 108,107                       | 50,107,785  | —                            | —                                 |
| Demand Charge Only <sup>1</sup> .....    | —                         | —                | —                          | —                             | —           | —                            | —                                 |
| Demand.....                              | —                         | —                | 477,849                    | —                             | 12,816,000  | —                            | —                                 |
| Energy.....                              | —                         | —                | 2,417,334                  | 108,107                       | 37,291,785  | —                            | —                                 |
| Other <sup>2</sup> .....                 | —                         | —                | —                          | —                             | —           | —                            | —                                 |
| <b>Other<sup>3</sup></b>                 |                           |                  |                            |                               |             |                              |                                   |
| Purchases (thousand kWh)                 | —                         | -31,510          | 3,187,947                  | 1,718,273                     | 6,935,939   | 7,984,142                    | —                                 |
| Cost (dollars).....                      | —                         | 10,482,960       | 214,603,934                | 39,185,046                    | 181,624,054 | 100,819,318                  | —                                 |
| Demand Charge Only <sup>1</sup> .....    | —                         | —                | —                          | —                             | 2,127       | —                            | —                                 |
| Demand.....                              | —                         | 155,147          | —                          | 4,996,238                     | 43,280,809  | 1,130,734                    | —                                 |
| Energy.....                              | —                         | 10,327,813       | 30,772,375                 | 35,457,739                    | 137,552,626 | 103,939,555                  | —                                 |
| Other <sup>2</sup> .....                 | —                         | —                | 183,831,559                | -1,268,931                    | 788,492     | -4,250,971                   | —                                 |
| <b>Total</b>                             |                           |                  |                            |                               |             |                              |                                   |
| Purchases (thousand kWh)                 | 10,055,053                | 911,018          | 3,564,415                  | 1,783,849                     | 25,669,732  | 21,885,657                   | 172,326                           |
| Cost (dollars).....                      | 171,033,440               | 24,470,015       | 222,069,982                | 41,119,643                    | 562,363,727 | 242,710,288                  | 5,973,229                         |
| Demand Charge Only <sup>1</sup> .....    | —                         | —                | —                          | —                             | 78,824,317  | 26,440,163                   | —                                 |
| Demand.....                              | —                         | 1,640,749        | 477,849                    | 5,312,118                     | 101,892,559 | 2,730,734                    | 2,070,906                         |
| Energy.....                              | —                         | 22,808,743       | 37,760,574                 | 37,076,456                    | 354,003,898 | 260,955,195                  | 4,316,284                         |
| Other <sup>2</sup> .....                 | 171,033,440               | 20,523           | 183,831,559                | -1,268,931                    | 27,642,953  | -47,415,804                  | -413,961                          |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Pennsylvania<br>Duquesne Light Co | Pennsylvania<br>Metropolitan Edison Co | Pennsylvania<br>Pennsylvania Electric Co | Pennsylvania<br>Pennsylvania Power & Light Co | Pennsylvania<br>Pennsylvania Power Co | Pennsylvania<br>Philadelphia Electric Co | Pennsylvania<br>Pike County Light & Power Co <sup>4</sup> |
|--|-----------------------------------|--|--|---|---------------------------------------|--|---|
| <b>Investor-Owned</b>                    |                                   |  |  |   |                                       |  |   |
| Purchases (thousand kWh)                 | 610,424                           | 654,883                                | 141,649                                  | 2,219,677                                     | 1,040,663                             | 12,648,670                               | —   |
| Cost (dollars).....                      | 12,390,499                        | 26,383,899                             | 8,671,214                                | 64,270,524                                    | 15,851,354                            | 223,413,896                              | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                 | 2,104,250                              | 856,377                                  | —   | —                                     | —  | —   |
| Demand.....                              | 46,140                            | 6,051,128                              | 4,279,353                                | —   | —                                     | 2,140,750                                | —   |
| Energy.....                              | 12,344,359                        | 18,228,521                             | 3,535,231                                | 54,115,456                                    | 15,851,354                            | 221,273,146                              | —   |
| Other <sup>2</sup> .....                 | —                                 | —                                      | 253                                      | 10,155,068                                    | —                                     | —  | —   |
| <b>Federal</b>                           |                                   |  |  |   |                                       |  |   |
| Purchases (thousand kWh)                 | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Cost (dollars).....                      | —                                 | —                                      | —  | —   | —                                     | 29,337                                   | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Demand.....                              | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Energy.....                              | —                                 | —                                      | —  | —   | —                                     | 29,337                                   | —   |
| Other <sup>2</sup> .....                 | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| <b>State and Other</b>                   |                                   |  |  |   |                                       |  |   |
| <b>Government</b>                        |                                   |  |  |   |                                       |  |   |
| Purchases (thousand kWh)                 | —                                 | 15,882                                 | 6,397                                    | 44,648  | —                                     | 87,996                                   | —   |
| Cost (dollars).....                      | —                                 | 252,344                                | -67,335                                  | 699,587                                       | —                                     | 2,386,511                                | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Demand.....                              | —                                 | 169,299                                | 166,912                                  | —   | —                                     | 60,000                                   | —   |
| Energy.....                              | —                                 | 83,045                                 | -234,247                                 | 699,587                                       | —                                     | 2,326,511                                | —   |
| Other <sup>2</sup> .....                 | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| <b>Municipal</b>                         |                                   |  |  |   |                                       |  |   |
| Purchases (thousand kWh)                 | —                                 | 4,277                                  | 211                                      | 25,867  | —                                     | 245,318                                  | —   |
| Cost (dollars).....                      | —                                 | 85,139                                 | 9,806                                    | 1,552,315                                     | —                                     | 7,553,729                                | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Demand.....                              | —                                 | —                                      | —  | —   | —                                     | 1,785,000                                | —   |
| Energy.....                              | —                                 | 85,139                                 | 9,806                                    | 1,552,315                                     | —                                     | 5,768,729                                | —   |
| Other <sup>2</sup> .....                 | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| <b>Cooperative</b>                       |                                   |  |  |   |                                       |  |   |
| Purchases (thousand kWh)                 | —                                 | —                                      | 29,098                                   | 148,191                                       | —                                     | 457,012                                  | —   |
| Cost (dollars).....                      | —                                 | —                                      | 312,822                                  | 2,201,868                                     | —                                     | 11,594,094                               | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Demand.....                              | —                                 | —                                      | —  | —   | —                                     | 1,941,811                                | —   |
| Energy.....                              | —                                 | —                                      | 312,822                                  | 2,201,868                                     | —                                     | 9,652,283                                | —   |
| Other <sup>2</sup> .....                 | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| <b>Other<sup>3</sup></b>                 |                                   |  |  |   |                                       |  |   |
| Purchases (thousand kWh)                 | 968,781                           | 3,867,278                              | 3,506,074                                | 7,093,876                                     | 762                                   | 8,470,871                                | —   |
| Cost (dollars).....                      | 20,033,519                        | 210,578,649                            | 201,005,203                              | 281,903,956                                   | 13,502                                | 231,340,042                              | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Demand.....                              | —                                 | 3,112,123                              | 1,747,149                                | —   | —                                     | 849,993                                  | —   |
| Energy.....                              | 20,033,519                        | 199,104,184                            | 199,705,463                              | 281,934,687                                   | 13,502                                | 230,490,049                              | —   |
| Other <sup>2</sup> .....                 | —                                 | 8,362,342                              | -447,409                                 | -30,731                                       | —                                     | —  | —   |
| <b>Total</b>                             |                                   |  |  |   |                                       |  |   |
| Purchases (thousand kWh)                 | 1,579,205                         | 4,542,320                              | 3,683,429                                | 9,532,259                                     | 1,041,425                             | 21,909,867                               | —   |
| Cost (dollars).....                      | 32,424,018                        | 237,300,031                            | 209,931,710                              | 350,628,250                                   | 15,864,856                            | 476,317,609                              | —   |
| Demand Charge Only <sup>1</sup> .....    | —                                 | 2,104,250                              | 856,377                                  | —   | —                                     | —  | —   |
| Demand.....                              | 46,140                            | 9,332,550                              | 6,193,414                                | —   | —                                     | 6,777,554                                | —   |
| Energy.....                              | 32,377,878                        | 217,500,889                            | 203,329,075                              | 340,503,913                                   | 15,864,856                            | 469,540,055                              | —   |
| Other <sup>2</sup> .....                 | —                                 | 8,362,342                              | -447,156                                 | 10,124,337                                    | —                                     | —  | —   |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Pennsylvania<br>Safe Harbor<br>Water<br>Power<br>Corp <sup>5</sup> | Pennsylvania<br>Susquehanna<br>Electric<br>Co <sup>5</sup> | Pennsylvania<br>UGI<br>Corp | Pennsylvania<br>West<br>Penn<br>Power<br>Co | Pennsylvania<br>York<br>Haven<br>Power<br>Co <sup>5</sup> | Rhode Island<br>Blackstone<br>Valley<br>Electric<br>Co <sup>4</sup> | Rhode Island<br>Narragansett<br>Electric<br>Co |
|--|--|--|-----------------------------|---|---|---|--|
| <b>Investor-Owned</b>                    |  |  |                             |   |   |   |  |
| Purchases (thousand kWh)                 | —  | —  | —                           | 2,665,878                                   | —   | 1,297,250   | 4,699,044                                      |
| Cost (dollars).....                      | —  | —  | —                           | 125,560,545                                 | —   | 90,975,165  | 286,875,271                                    |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                           | —   | —   | —   | —  |
| Demand.....                              | —  | —  | —                           | 51,253,556                                  | —   | 67,106,993  | 133,878,643                                    |
| Energy.....                              | —  | —  | —                           | 37,816,573                                  | —   | 23,868,172  | 94,660,653                                     |
| Other <sup>2</sup> .....                 | —  | —  | —                           | 36,490,416                                  | —   | —   | 58,335,975                                     |
| <b>Federal</b>                           |  |  |                             |   |   |   |  |
| Purchases (thousand kWh)                 | —  | —  | —                           | —   | —   | —   | —  |
| Cost (dollars).....                      | —  | —  | —                           | —   | —   | —   | —  |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                           | —   | —   | —   | —  |
| Demand.....                              | —  | —  | —                           | —   | —   | —   | —  |
| Energy.....                              | —  | —  | —                           | —   | —   | —   | —  |
| Other <sup>2</sup> .....                 | —  | —  | —                           | —   | —   | —   | —  |
| <b>State and Other</b>                   |  |  |                             |   |   |   |  |
| <b>Government</b>                        |  |  |                             |   |   |   |  |
| Purchases (thousand kWh)                 | —  | —  | —                           | —   | —   | —   | —  |
| Cost (dollars).....                      | —  | —  | —                           | —   | —   | —   | —  |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                           | —   | —   | —   | —  |
| Demand.....                              | —  | —  | —                           | —   | —   | —   | —  |
| Energy.....                              | —  | —  | —                           | —   | —   | —   | —  |
| Other <sup>2</sup> .....                 | —  | —  | —                           | —   | —   | —   | —  |
| <b>Municipal</b>                         |  |  |                             |   |   |   |  |
| Purchases (thousand kWh)                 | —  | —  | —                           | 504   | —   | —   | —  |
| Cost (dollars).....                      | —  | —  | —                           | 6,279                                       | —   | —   | —  |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                           | —   | —   | —   | —  |
| Demand.....                              | —  | —  | —                           | —   | —   | —   | —  |
| Energy.....                              | —  | —  | —                           | 6,279                                       | —   | —   | —  |
| Other <sup>2</sup> .....                 | —  | —  | —                           | —   | —   | —   | —  |
| <b>Cooperative</b>                       |  |  |                             |   |   |   |  |
| Purchases (thousand kWh)                 | —  | —  | —                           | —   | —   | —   | —  |
| Cost (dollars).....                      | —  | —  | —                           | —   | —   | —   | —  |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                           | —   | —   | —   | —  |
| Demand.....                              | —  | —  | —                           | —   | —   | —   | —  |
| Energy.....                              | —  | —  | —                           | —   | —   | —   | —  |
| Other <sup>2</sup> .....                 | —  | —  | —                           | —   | —   | —   | —  |
| <b>Other<sup>3</sup></b>                 |  |  |                             |   |   |   |  |
| Purchases (thousand kWh)                 | —  | —  | —                           | 1,506,493                                   | —   | 1,994   | 1,395  |
| Cost (dollars).....                      | —  | —  | —                           | 69,819,056                                  | —   | 40,931  | 110,590  |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                           | 2,058                                       | —   | —   | —  |
| Demand.....                              | —  | —  | —                           | 44,599,073                                  | —   | —   | —  |
| Energy.....                              | —  | —  | —                           | 25,217,925                                  | —   | 40,931  | 110,590  |
| Other <sup>2</sup> .....                 | —  | —  | —                           | —   | —   | —   | —  |
| <b>Total</b>                             |  |  |                             |   |   |   |  |
| Purchases (thousand kWh)                 | —  | —  | —                           | 4,172,875                                   | —   | 1,299,244   | 4,700,439                                      |
| Cost (dollars).....                      | —  | —  | —                           | 195,385,880                                 | —   | 91,016,096  | 286,985,861                                    |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                           | 2,058                                       | —   | —   | —  |
| Demand.....                              | —  | —  | —                           | 95,852,629                                  | —   | 67,106,993  | 133,878,643                                    |
| Energy.....                              | —  | —  | —                           | 63,040,777                                  | —   | 23,909,103  | 94,771,243                                     |
| Other <sup>2</sup> .....                 | —  | —  | —                           | 36,490,416                                  | —   | —   | 58,335,975                                     |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Rhode Island          | Rhode Island                      | Rhode Island                      | South Carolina    | South Carolina                   | South Carolina                                | South Dakota     |
|--|-----------------------|-----------------------------------|-----------------------------------|-------------------|----------------------------------|---|------------------|
|  | Newport Electric Corp | Ocean State Power #2 <sup>5</sup> | Ocean State Power Co <sup>5</sup> | Lockhart Power Co | South Carolina Electric & Gas Co | South Carolina Generating Co Inc <sup>5</sup> | Black Hills Corp |
| <b>Investor-Owned</b>                    |                       |                                   |                                   |                   |                                  |   |                  |
| Purchases (thousand kWh)                 | 557,700               | —                                 | —                                 | 283,027           | 4,314,799                        | —   | 368,598          |
| Cost (dollars).....                      | 36,505,373            | —                                 | —                                 | 12,796,127        | 101,573,689                      | —   | 20,472,038       |
| Demand Charge Only <sup>1</sup> .....    | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Demand.....                              | 26,474,812            | —                                 | —                                 | 6,351,945         | 102,000                          | —   | 16,210,734       |
| Energy.....                              | 10,091,133            | —                                 | —                                 | 7,704,891         | 101,471,689                      | —   | 4,261,304        |
| Other <sup>2</sup> .....                 | -60,572               | —                                 | —                                 | -1,260,709        | —                                | —   | —                |
| <b>Federal</b>                           |                       |                                   |                                   |                   |                                  |   |                  |
| Purchases (thousand kWh)                 | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Cost (dollars).....                      | —                     | —                                 | —                                 | —                 | —                                | —   | -119,444         |
| Demand Charge Only <sup>1</sup> .....    | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Demand.....                              | —                     | —                                 | —                                 | —                 | —                                | —   | 85,158           |
| Energy.....                              | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Other <sup>2</sup> .....                 | —                     | —                                 | —                                 | —                 | —                                | —   | -204,602         |
| <b>State and Other</b>                   |                       |                                   |                                   |                   |                                  |   |                  |
| <b>Government</b>                        |                       |                                   |                                   |                   |                                  |   |                  |
| Purchases (thousand kWh)                 | —                     | —                                 | —                                 | —                 | 9,866                            | —   | 17,976           |
| Cost (dollars).....                      | —                     | —                                 | —                                 | —                 | 241,581                          | —   | 458,042          |
| Demand Charge Only <sup>1</sup> .....    | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Demand.....                              | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Energy.....                              | —                     | —                                 | —                                 | —                 | 241,581                          | —   | 458,042          |
| Other <sup>2</sup> .....                 | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| <b>Municipal</b>                         |                       |                                   |                                   |                   |                                  |   |                  |
| Purchases (thousand kWh)                 | —                     | —                                 | —                                 | —                 | 19,644                           | —   | —                |
| Cost (dollars).....                      | —                     | —                                 | —                                 | —                 | 242,919                          | —   | —                |
| Demand Charge Only <sup>1</sup> .....    | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Demand.....                              | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Energy.....                              | —                     | —                                 | —                                 | —                 | 242,919                          | —   | —                |
| Other <sup>2</sup> .....                 | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| <b>Cooperative</b>                       |                       |                                   |                                   |                   |                                  |   |                  |
| Purchases (thousand kWh)                 | —                     | —                                 | —                                 | —                 | 35,251                           | —   | 29,808           |
| Cost (dollars).....                      | —                     | —                                 | —                                 | —                 | 961,772                          | —   | 433,491          |
| Demand Charge Only <sup>1</sup> .....    | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Demand.....                              | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Energy.....                              | —                     | —                                 | —                                 | —                 | 961,772                          | —   | 433,491          |
| Other <sup>2</sup> .....                 | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| <b>Other<sup>3</sup></b>                 |                       |                                   |                                   |                   |                                  |   |                  |
| Purchases (thousand kWh)                 | 23                    | —                                 | —                                 | 2,960             | 152,267                          | —   | —                |
| Cost (dollars).....                      | 859                   | —                                 | —                                 | 89,021            | 3,772,377                        | —   | —                |
| Demand Charge Only <sup>1</sup> .....    | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Demand.....                              | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Energy.....                              | 859                   | —                                 | —                                 | 67,146            | 3,772,377                        | —   | —                |
| Other <sup>2</sup> .....                 | —                     | —                                 | —                                 | 21,875            | —                                | —   | —                |
| <b>Total</b>                             |                       |                                   |                                   |                   |                                  |   |                  |
| Purchases (thousand kWh)                 | 557,723               | —                                 | —                                 | 285,987           | 4,531,827                        | —   | 416,382          |
| Cost (dollars).....                      | 36,506,232            | —                                 | —                                 | 12,885,148        | 106,792,338                      | —   | 21,244,127       |
| Demand Charge Only <sup>1</sup> .....    | —                     | —                                 | —                                 | —                 | —                                | —   | —                |
| Demand.....                              | 26,474,812            | —                                 | —                                 | 6,351,945         | 102,000                          | —   | 16,295,892       |
| Energy.....                              | 10,091,992            | —                                 | —                                 | 7,772,037         | 106,690,338                      | —   | 5,152,837        |
| Other <sup>2</sup> .....                 | -60,572               | —                                 | —                                 | -1,238,834        | —                                | —   | -204,602         |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | South Dakota<br>Northwestern Public Service Co | Tennessee<br>Kingsport Power Co <sup>4</sup> | Tennessee<br>Tapoco Inc <sup>8</sup> | Texas<br>Central Power & Light Co | Texas<br>El Paso Electric Co | Texas<br>Gulf States Utilities Co | Texas<br>Houston Lighting & Power Co |
|--|--|--|--------------------------------------|-----------------------------------|------------------------------|-----------------------------------|--------------------------------------|
| <b>Investor-Owned</b>                    |  |  |                                      |                                   |                              |                                   |                                      |
| Purchases (thousand kWh)                 | 48,268   | 1,927,778                                    | —                                    | 89,466                            | 643,537                      | 1,232,393                         | 201,943                              |
| Cost (dollars).....                      | 898,007  | 59,513,458                                   | —                                    | 1,996,692                         | 18,508,826                   | 21,805,614                        | 7,741,328                            |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                              | —  | 27,674,474                                   | —                                    | —                                 | 6,120,000                    | —                                 | —                                    |
| Energy.....                              | 898,007  | 35,474,098                                   | —                                    | 1,989,000                         | 12,386,571                   | 21,805,614                        | 7,741,328                            |
| Other <sup>2</sup> .....                 | —  | -3,635,114                                   | —                                    | 7,692                             | 2,255                        | —                                 | —                                    |
| <b>Federal</b>                           |  |  |                                      |                                   |                              |                                   |                                      |
| Purchases (thousand kWh)                 | 24,261   | —  | —                                    | 24,144                            | —                            | 2,589,688                         | —                                    |
| Cost (dollars).....                      | 438,021  | —  | —                                    | 728,007                           | 5,228                        | 53,091,713                        | —                                    |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                              | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Energy.....                              | 438,021  | —  | —                                    | 728,007                           | —                            | 53,091,713                        | —                                    |
| Other <sup>2</sup> .....                 | —  | —  | —                                    | —                                 | 5,228                        | —                                 | —                                    |
| <b>State and Other</b>                   |  |  |                                      |                                   |                              |                                   |                                      |
| <b>Government</b>                        |  |  |                                      |                                   |                              |                                   |                                      |
| Purchases (thousand kWh)                 | 42,835   | —  | —                                    | 67,233                            | 71,757                       | 311,052                           | 132,090                              |
| Cost (dollars).....                      | 608,806  | —  | —                                    | 1,275,494                         | 1,167,822                    | 8,643,729                         | 2,201,292                            |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                              | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Energy.....                              | 608,806  | —  | —                                    | 1,241,843                         | 1,146,911                    | 5,337,878                         | 2,201,292                            |
| Other <sup>2</sup> .....                 | —  | —  | —                                    | 33,651                            | 20,911                       | 3,305,851                         | —                                    |
| <b>Municipal</b>                         |  |  |                                      |                                   |                              |                                   |                                      |
| Purchases (thousand kWh)                 | 32,295   | —  | —                                    | 51,275                            | 17,221                       | 113,944                           | 2,035,627                            |
| Cost (dollars).....                      | 462,490  | —  | —                                    | 1,305,435                         | 412,598                      | 2,198,324                         | 39,984,548                           |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                              | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Energy.....                              | 462,490  | —  | —                                    | 1,262,044                         | 411,675                      | 2,198,324                         | 39,984,548                           |
| Other <sup>2</sup> .....                 | —  | —  | —                                    | 43,391                            | 923                          | —                                 | —                                    |
| <b>Cooperative</b>                       |  |  |                                      |                                   |                              |                                   |                                      |
| Purchases (thousand kWh)                 | 23,956   | —  | —                                    | —                                 | 78                           | 1,259,431                         | 34,588                               |
| Cost (dollars).....                      | 558,256  | —  | —                                    | —                                 | 8,092                        | 22,227,602                        | 569,494                              |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                              | 140,400  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Energy.....                              | 417,856  | —  | —                                    | —                                 | 1,710                        | 22,227,602                        | 569,494                              |
| Other <sup>2</sup> .....                 | —  | —  | —                                    | —                                 | 6,382                        | —                                 | —                                    |
| <b>Other<sup>3</sup></b>                 |  |  |                                      |                                   |                              |                                   |                                      |
| Purchases (thousand kWh)                 | —  | —  | —                                    | 2,734,970                         | -55                          | 6,507,327                         | 10,135,924                           |
| Cost (dollars).....                      | 105,016  | —  | —                                    | 54,193,583                        | —                            | 187,992,597                       | 271,766,007                          |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                              | —  | —  | —                                    | —                                 | —                            | —                                 | 21,966,831                           |
| Energy.....                              | —  | —  | —                                    | 54,388,341                        | —                            | 178,887,192                       | 249,799,176                          |
| Other <sup>2</sup> .....                 | 105,016  | —  | —                                    | -194,758                          | —                            | 9,105,405                         | —                                    |
| <b>Total</b>                             |  |  |                                      |                                   |                              |                                   |                                      |
| Purchases (thousand kWh)                 | 171,615  | 1,927,778                                    | —                                    | 2,967,088                         | 732,538                      | 12,013,835                        | 12,540,172                           |
| Cost (dollars).....                      | 3,070,596                                      | 59,513,458                                   | —                                    | 59,499,211                        | 20,102,566                   | 295,959,579                       | 322,262,669                          |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                              | 140,400  | 27,674,474                                   | —                                    | —                                 | 6,120,000                    | —                                 | 21,966,831                           |
| Energy.....                              | 2,825,180                                      | 35,474,098                                   | —                                    | 59,609,235                        | 13,946,867                   | 283,548,323                       | 300,295,838                          |
| Other <sup>2</sup> .....                 | 105,016  | -3,635,114                                   | —                                    | -110,024                          | 35,699                       | 12,411,256                        | —                                    |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Texas<br>Southwestern<br>Electric<br>Service<br>Co | Texas<br>Southwestern<br>Public<br>Service<br>Co | Texas<br>Utilities<br>Electric<br>Co | Texas<br>Texas-<br>New Mexico<br>Power<br>Co | Texas<br>West<br>Texas<br>Utilities<br>Co | Vermont<br>Central<br>Vermont<br>Public<br>Service<br>Corp | Vermont<br>Citizens<br>Utilities<br>Co <sup>4</sup> |
|--|--|--|--------------------------------------|--|---|--|---|
| <b>Investor-Owned</b>                    |  |  |                                      |  |   |  |   |
| Purchases (thousand kWh)                 | 724,763  | 563,804  | 109,553                              | 3,352,857                                    | 31,749                                    | 3,220,016  | —   |
| Cost (dollars).....                      | 36,166,652   | 8,798,568  | 3,181,014                            | 133,475,502                                  | 2,103,472                                 | 136,523,614  | —   |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —  | 1,084,720                                 | 1,803,901  | —   |
| Demand.....                              | 18,479,439   | 790,500  | —                                    | 69,456,813                                   | —   | 84,317,745   | —   |
| Energy.....                              | 16,423,635   | —  | 3,111,098                            | 64,018,689                                   | 1,018,752                                 | 52,762,812   | —   |
| Other <sup>2</sup> .....                 | 1,263,578  | 8,008,068  | 69,916                               | —  | —   | -2,360,844   | —   |
| <b>Federal</b>                           |  |  |                                      |  |   |  |   |
| Purchases (thousand kWh)                 | —  | 94   | —                                    | —  | —   | —  | —   |
| Cost (dollars).....                      | —  | 2,118  | —                                    | —  | —   | —  | —   |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —  | —   | —  | —   |
| Demand.....                              | —  | —  | —                                    | —  | —   | —  | —   |
| Energy.....                              | —  | —  | —                                    | —  | —   | —  | —   |
| Other <sup>2</sup> .....                 | —  | 2,118  | —                                    | —  | —   | —  | —   |
| <b>State and Other</b>                   |  |  |                                      |  |   |  |   |
| <b>Government</b>                        |  |  |                                      |  |   |  |   |
| Purchases (thousand kWh)                 | 371,740  | 2,934  | 33,187                               | —  | 3,897                                     | 11,756   | —   |
| Cost (dollars).....                      | 13,366,172   | 59,380   | 607,908                              | —  | 172,166                                   | 182,855  | —   |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —  | —   | —  | —   |
| Demand.....                              | 3,153,658  | —  | —                                    | —  | —   | 8,224  | —   |
| Energy.....                              | 9,124,177  | —  | 607,524                              | —  | 172,166                                   | 143,512  | —   |
| Other <sup>2</sup> .....                 | 1,088,337  | 59,380   | 384                                  | —  | —   | 31,119   | —   |
| <b>Municipal</b>                         |  |  |                                      |  |   |  |   |
| Purchases (thousand kWh)                 | —  | 288  | 181,229                              | 66   | 7,800                                     | 11,629   | —   |
| Cost (dollars).....                      | —  | 5,746  | 3,296,114                            | 827  | 237,800                                   | 764,093  | —   |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —  | —   | —  | —   |
| Demand.....                              | —  | —  | —                                    | —  | —   | 474,926  | —   |
| Energy.....                              | —  | —  | 3,234,280                            | 827  | 237,800                                   | 289,167  | —   |
| Other <sup>2</sup> .....                 | —  | 5,746  | 61,834                               | —  | —   | —  | —   |
| <b>Cooperative</b>                       |  |  |                                      |  |   |  |   |
| Purchases (thousand kWh)                 | —  | 53   | 18,511                               | —  | —   | —  | —   |
| Cost (dollars).....                      | —  | 2,934  | 239,447                              | —  | —   | —  | —   |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | —  | —   | —  | —   |
| Demand.....                              | —  | —  | —                                    | —  | —   | —  | —   |
| Energy.....                              | —  | —  | 334,519                              | —  | —   | —  | —   |
| Other <sup>2</sup> .....                 | —  | 2,934  | -95,072                              | —  | —   | —  | —   |
| <b>Other<sup>3</sup></b>                 |  |  |                                      |  |   |  |   |
| Purchases (thousand kWh)                 | 15,260   | 671,262  | 12,071,811                           | 2,516,077                                    | 1,423,403                                 | 161,711  | —   |
| Cost (dollars).....                      | —  | 11,285,355                                       | 525,678,938                          | 63,004,866                                   | 29,289,627                                | 12,811,907   | —   |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | 743,734                                      | —   | —  | —   |
| Demand.....                              | —  | —  | 228,336,202                          | 26,186,301                                   | —   | 1,815,669  | —   |
| Energy.....                              | —  | —  | 297,251,939                          | 43,437,191                                   | 29,000,027                                | 10,808,741   | —   |
| Other <sup>2</sup> .....                 | —  | 11,285,355                                       | 90,797                               | -7,362,360                                   | 289,600                                   | 187,497  | —   |
| <b>Total</b>                             |  |  |                                      |  |   |  |   |
| Purchases (thousand kWh)                 | 1,111,763  | 1,238,435  | 12,414,291                           | 5,869,000                                    | 1,466,849                                 | 3,405,112  | —   |
| Cost (dollars).....                      | 49,532,824   | 20,154,101                                       | 533,003,421                          | 196,481,195                                  | 31,803,065                                | 150,282,469  | —   |
| Demand Charge Only <sup>1</sup> .....    | —  | —  | —                                    | 743,734                                      | 1,084,720                                 | 1,803,901  | —   |
| Demand.....                              | 21,633,097   | 790,500  | 228,336,202                          | 95,643,114                                   | —   | 86,616,564   | —   |
| Energy.....                              | 25,547,812   | —  | 304,539,360                          | 107,456,707                                  | 30,428,745                                | 64,004,232   | —   |
| Other <sup>2</sup> .....                 | 2,351,915  | 19,363,601                                       | 127,859                              | -7,362,360                                   | 289,600                                   | -2,142,228   | —   |

See notes and footnotes at end of table.



**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Vermont<br>Green Mountain Power Corp | Vermont<br>Vermont Electric Power Co Inc | Vermont<br>Vermont Electric Trans Co <sup>6</sup> | Vermont<br>Vermont Marble Co <sup>8</sup> | Vermont<br>Vermont Yankee Nuclear Power Corp <sup>5</sup> | Virginia<br>Appalachian Power Co | Virginia<br>Virginia Electric Power Co |
|--|--------------------------------------|--|---|---|---|----------------------------------|--|
| <b>Investor-Owned</b>                    |                                      |  |   |   |   |                                  |  |
| Purchases (thousand kWh)                 | 710,626                              | 863,375                                  | —   | —   | —   | 823,283                          | 5,833,745                              |
| Cost (dollars).....                      | 30,261,493                           | 32,029,130                               | —   | —   | —   | 17,673,227                       | 158,267,332                            |
| Demand Charge Only <sup>1</sup> .....    | —                                    | —  | —   | —   | —   | —                                | 5,520,000                              |
| Demand.....                              | 28,700,560                           | 19,310,833                               | —   | —   | —   | 45,541                           | 50,704,326                             |
| Energy.....                              | 4,519,152                            | 11,880,528                               | —   | —   | —   | 17,627,686                       | 102,043,006                            |
| Other <sup>2</sup> .....                 | -2,958,219                           | 837,769                                  | —   | —   | —   | —                                | —                                      |
| <b>Federal</b>                           |                                      |  |   |   |   |                                  |  |
| Purchases (thousand kWh)                 | —                                    | —  | —   | —   | —   | 75,696                           | —                                      |
| Cost (dollars).....                      | —                                    | —  | —   | —   | —   | 1,761,869                        | —                                      |
| Demand Charge Only <sup>1</sup> .....    | —                                    | —  | —   | —   | —   | —                                | —                                      |
| Demand.....                              | —                                    | —  | —   | —   | —   | —                                | —                                      |
| Energy.....                              | —                                    | —  | —   | —   | —   | 1,761,869                        | —                                      |
| Other <sup>2</sup> .....                 | —                                    | —  | —   | —   | —   | —                                | —                                      |
| <b>State and Other</b>                   |                                      |  |   |   |   |                                  |  |
| <b>Government</b>                        |                                      |  |   |   |   |                                  |  |
| Purchases (thousand kWh)                 | 18,636                               | —  | —   | —   | —   | —                                | 810                                    |
| Cost (dollars).....                      | 1,301,482                            | —  | —   | —   | —   | —                                | 15,747                                 |
| Demand Charge Only <sup>1</sup> .....    | —                                    | —  | —   | —   | —   | —                                | —                                      |
| Demand.....                              | 868,270                              | —  | —   | —   | —   | —                                | —                                      |
| Energy.....                              | 433,212                              | —  | —   | —   | —   | —                                | 15,747                                 |
| Other <sup>2</sup> .....                 | —                                    | —  | —   | —   | —   | —                                | —                                      |
| <b>Municipal</b>                         |                                      |  |   |   |   |                                  |  |
| Purchases (thousand kWh)                 | 35,683                               | —  | —   | —   | —   | 245                              | 1,059                                  |
| Cost (dollars).....                      | 1,659,018                            | —  | —   | —   | —   | 9,363                            | 96,326                                 |
| Demand Charge Only <sup>1</sup> .....    | —                                    | —  | —   | —   | —   | —                                | —                                      |
| Demand.....                              | 992,022                              | —  | —   | —   | —   | —                                | 8,757                                  |
| Energy.....                              | 666,996                              | —  | —   | —   | —   | 9,363                            | 87,569                                 |
| Other <sup>2</sup> .....                 | —                                    | —  | —   | —   | —   | —                                | —                                      |
| <b>Cooperative</b>                       |                                      |  |   |   |   |                                  |  |
| Purchases (thousand kWh)                 | 558                                  | —  | —   | —   | —   | —                                | 2,905,043                              |
| Cost (dollars).....                      | 52,815                               | —  | —   | —   | —   | -110                             | 86,332,578                             |
| Demand Charge Only <sup>1</sup> .....    | —                                    | —  | —   | —   | —   | —                                | —                                      |
| Demand.....                              | 52,815                               | —  | —   | —   | —   | —                                | 29,173,974                             |
| Energy.....                              | —                                    | —  | —   | —   | —   | -110                             | 57,158,604                             |
| Other <sup>2</sup> .....                 | —                                    | —  | —   | —   | —   | —                                | —                                      |
| <b>Other<sup>3</sup></b>                 |                                      |  |   |   |   |                                  |  |
| Purchases (thousand kWh)                 | 1,643,824                            | —  | —   | —   | —   | 16,348,597                       | 12,412,513                             |
| Cost (dollars).....                      | 63,641,402                           | —  | —   | —   | —   | 313,569,535                      | 939,473,432                            |
| Demand Charge Only <sup>1</sup> .....    | 11,537                               | —  | —   | —   | —   | —                                | 325,000                                |
| Demand.....                              | 14,737,740                           | —  | —   | —   | —   | —                                | 631,834,875                            |
| Energy.....                              | 47,950,365                           | —  | —   | —   | —   | 313,569,535                      | 307,313,557                            |
| Other <sup>2</sup> .....                 | 941,760                              | —  | —   | —   | —   | —                                | —                                      |
| <b>Total</b>                             |                                      |  |   |   |   |                                  |  |
| Purchases (thousand kWh)                 | 2,409,327                            | 863,375                                  | —   | —   | —   | 17,247,821                       | 21,153,170                             |
| Cost (dollars).....                      | 96,916,210                           | 32,029,130                               | —   | —   | —   | 333,013,884                      | 1,184,185,415                          |
| Demand Charge Only <sup>1</sup> .....    | 11,537                               | —  | —   | —   | —   | —                                | 5,845,000                              |
| Demand.....                              | 45,351,407                           | 19,310,833                               | —   | —   | —   | 45,541                           | 711,721,932                            |
| Energy.....                              | 53,569,725                           | 11,880,528                               | —   | —   | —   | 332,968,343                      | 466,618,483                            |
| Other <sup>2</sup> .....                 | -2,016,459                           | 837,769                                  | —   | —   | —   | —                                | —                                      |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Washington                   | Washington                | West Virginia                        | West Virginia        | West Virginia                     | West Virginia                  | Wisconsin                   |
|--|------------------------------|---------------------------|--------------------------------------|----------------------|-----------------------------------|--------------------------------|-----------------------------|
|  | Puget Sound Power & Light Co | Washington Water Power Co | Kanawha Valley Power Co <sup>5</sup> | Monongahela Power Co | UtiliCorp United Inc <sup>4</sup> | Wheeling Power Co <sup>4</sup> | Consolidated Water Power Co |
| <b>Investor-Owned</b>                    |                              |                           |                                      |                      |                                   |                                |                             |
| Purchases (thousand kWh)                 | 2,571,156                    | 1,744,140                 | —                                    | 1,377,417            | —                                 | 1,865,918                      | 1,087,654                   |
| Cost (dollars).....                      | 98,030,904                   | 24,210,901                | —                                    | 66,828,097           | —                                 | 59,040,190                     | 23,429,788                  |
| Demand Charge Only <sup>1</sup> .....    | —                            | 138,888                   | —                                    | —                    | —                                 | —                              | —                           |
| Demand.....                              | 49,515,048                   | —                         | —                                    | 27,801,601           | —                                 | 19,387,688                     | 5,573,783                   |
| Energy.....                              | 48,515,856                   | 24,072,013                | —                                    | 18,807,860           | —                                 | 39,652,502                     | 17,856,005                  |
| Other <sup>2</sup> .....                 | —                            | —                         | —                                    | 20,218,636           | —                                 | —                              | —                           |
| <b>Federal</b>                           |                              |                           |                                      |                      |                                   |                                |                             |
| Purchases (thousand kWh)                 | 2,803,803                    | 2,905,899                 | —                                    | —                    | —                                 | —                              | —                           |
| Cost (dollars).....                      | 61,131,966                   | 65,439,915                | —                                    | —                    | —                                 | —                              | —                           |
| Demand Charge Only <sup>1</sup> .....    | —                            | 3,324,476                 | —                                    | —                    | —                                 | —                              | —                           |
| Demand.....                              | 308,732                      | 2,340,000                 | —                                    | —                    | —                                 | —                              | —                           |
| Energy.....                              | 57,202,162                   | 59,579,907                | —                                    | —                    | —                                 | —                              | —                           |
| Other <sup>2</sup> .....                 | 3,621,072                    | 195,532                   | —                                    | —                    | —                                 | —                              | —                           |
| <b>State and Other</b>                   |                              |                           |                                      |                      |                                   |                                |                             |
| <b>Government</b>                        |                              |                           |                                      |                      |                                   |                                |                             |
| Purchases (thousand kWh)                 | 9,066,882                    | 2,282,712                 | —                                    | —                    | —                                 | —                              | —                           |
| Cost (dollars).....                      | 82,800,029                   | 17,892,758                | —                                    | —                    | —                                 | —                              | —                           |
| Demand Charge Only <sup>1</sup> .....    | 212,500                      | 282,000                   | —                                    | —                    | —                                 | —                              | —                           |
| Demand.....                              | —                            | 150,000                   | —                                    | —                    | —                                 | —                              | —                           |
| Energy.....                              | 82,587,529                   | 17,460,758                | —                                    | —                    | —                                 | —                              | —                           |
| Other <sup>2</sup> .....                 | —                            | —                         | —                                    | —                    | —                                 | —                              | —                           |
| <b>Municipal</b>                         |                              |                           |                                      |                      |                                   |                                |                             |
| Purchases (thousand kWh)                 | 1,377,193                    | 499,447                   | —                                    | 277                  | —                                 | —                              | —                           |
| Cost (dollars).....                      | 46,672,377                   | 5,378,319                 | —                                    | 3,477                | —                                 | —                              | —                           |
| Demand Charge Only <sup>1</sup> .....    | —                            | —                         | —                                    | —                    | —                                 | —                              | —                           |
| Demand.....                              | —                            | —                         | —                                    | —                    | —                                 | —                              | —                           |
| Energy.....                              | 46,156,851                   | 5,378,319                 | —                                    | 3,477                | —                                 | —                              | —                           |
| Other <sup>2</sup> .....                 | 515,526                      | —                         | —                                    | —                    | —                                 | —                              | —                           |
| <b>Cooperative</b>                       |                              |                           |                                      |                      |                                   |                                |                             |
| Purchases (thousand kWh)                 | —                            | 630                       | —                                    | —                    | —                                 | —                              | —                           |
| Cost (dollars).....                      | —                            | 55,127                    | —                                    | —                    | —                                 | —                              | —                           |
| Demand Charge Only <sup>1</sup> .....    | —                            | —                         | —                                    | —                    | —                                 | —                              | —                           |
| Demand.....                              | —                            | —                         | —                                    | —                    | —                                 | —                              | —                           |
| Energy.....                              | —                            | 13,729                    | —                                    | —                    | —                                 | —                              | —                           |
| Other <sup>2</sup> .....                 | —                            | 41,398                    | —                                    | —                    | —                                 | —                              | —                           |
| <b>Other<sup>3</sup></b>                 |                              |                           |                                      |                      |                                   |                                |                             |
| Purchases (thousand kWh)                 | 4,795,186                    | 4,374,174                 | —                                    | 1,531,028            | —                                 | 4,413                          | 7,500                       |
| Cost (dollars).....                      | 137,688,106                  | 76,933,516                | —                                    | 72,471,464           | —                                 | 1,392,132                      | 121,558                     |
| Demand Charge Only <sup>1</sup> .....    | —                            | —                         | —                                    | 1,133                | —                                 | —                              | —                           |
| Demand.....                              | 168,221                      | —                         | —                                    | 43,562,599           | —                                 | —                              | —                           |
| Energy.....                              | 192,259,326                  | 76,822,209                | —                                    | 28,907,732           | —                                 | 85,019                         | 121,558                     |
| Other <sup>2</sup> .....                 | -54,739,441                  | 111,307                   | —                                    | —                    | —                                 | 1,307,113                      | —                           |
| <b>Total</b>                             |                              |                           |                                      |                      |                                   |                                |                             |
| Purchases (thousand kWh)                 | 20,614,220                   | 11,807,002                | —                                    | 2,908,722            | —                                 | 1,870,331                      | 1,095,154                   |
| Cost (dollars).....                      | 426,323,382                  | 189,910,536               | —                                    | 139,303,038          | —                                 | 60,432,322                     | 23,551,346                  |
| Demand Charge Only <sup>1</sup> .....    | 212,500                      | 3,745,364                 | —                                    | 1,133                | —                                 | —                              | —                           |
| Demand.....                              | 49,992,001                   | 2,490,000                 | —                                    | 71,364,200           | —                                 | 19,387,688                     | 5,573,783                   |
| Energy.....                              | 426,721,724                  | 183,326,935               | —                                    | 47,719,069           | —                                 | 39,737,521                     | 17,977,563                  |
| Other <sup>2</sup> .....                 | -50,602,843                  | 348,237                   | —                                    | 20,218,636           | —                                 | 1,307,113                      | —                           |

See notes and footnotes at end of table.

**Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)**

| Source of Electricity by Ownership Class | Wisconsin Electric Power Co | Wisconsin Power & Light Co | Wisconsin Public Service Corp | Wisconsin River Power Co <sup>5</sup> | Wyoming Cheyenne Light Fuel & Power Co <sup>4</sup> |
|--|-----------------------------|----------------------------|-------------------------------|---------------------------------------|---|
| <b>Investor-Owned</b>                    |                             |                            |                               |                                       |   |
| Purchases (thousand kWh)                 | 1,062,321                   | 1,015,448                  | 1,591,574                     | —                                     | —   |
| Cost (dollars).....                      | 19,765,696                  | 23,035,021                 | 29,109,140                    | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....    | —                           | —                          | —                             | —                                     | —   |
| Demand.....                              | 1,059,580                   | 16,747                     | 1,963,257                     | —                                     | —   |
| Energy.....                              | 18,598,116                  | 16,778,984                 | 27,145,883                    | —                                     | —   |
| Other <sup>2</sup> .....                 | 108,000                     | 6,239,290                  | —                             | —                                     | —   |
| <b>Federal</b>                           |                             |                            |                               |                                       |   |
| Purchases (thousand kWh)                 | —                           | 498,494                    | —                             | —                                     | —   |
| Cost (dollars).....                      | —                           | 6,281,631                  | —                             | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....    | —                           | —                          | —                             | —                                     | —   |
| Demand.....                              | —                           | —                          | —                             | —                                     | —   |
| Energy.....                              | —                           | 6,281,631                  | —                             | —                                     | —   |
| Other <sup>2</sup> .....                 | —                           | —                          | —                             | —                                     | —   |
| <b>State and Other</b>                   |                             |                            |                               |                                       |   |
| <b>Government</b>                        |                             |                            |                               |                                       |   |
| Purchases (thousand kWh)                 | —                           | 6,170                      | —                             | —                                     | —   |
| Cost (dollars).....                      | —                           | 115,587                    | —                             | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....    | —                           | —                          | —                             | —                                     | —   |
| Demand.....                              | —                           | —                          | —                             | —                                     | —   |
| Energy.....                              | —                           | 115,587                    | —                             | —                                     | —   |
| Other <sup>2</sup> .....                 | —                           | —                          | —                             | —                                     | —   |
| <b>Municipal</b>                         |                             |                            |                               |                                       |   |
| Purchases (thousand kWh)                 | 4,755                       | 12,765                     | 78                            | —                                     | —   |
| Cost (dollars).....                      | 118,587                     | 670,226                    | 2,412                         | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....    | —                           | —                          | —                             | —                                     | —   |
| Demand.....                              | —                           | —                          | —                             | —                                     | —   |
| Energy.....                              | 118,587                     | 670,226                    | 2,412                         | —                                     | —   |
| Other <sup>2</sup> .....                 | —                           | —                          | —                             | —                                     | —   |
| <b>Cooperative</b>                       |                             |                            |                               |                                       |   |
| Purchases (thousand kWh)                 | 2,475                       | 2,655,310                  | 1,000                         | —                                     | —   |
| Cost (dollars).....                      | 41,262                      | 41,160,923                 | 22,150                        | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....    | —                           | —                          | —                             | —                                     | —   |
| Demand.....                              | —                           | —                          | —                             | —                                     | —   |
| Energy.....                              | 41,262                      | 39,260,923                 | 22,150                        | —                                     | —   |
| Other <sup>2</sup> .....                 | —                           | 1,900,000                  | —                             | —                                     | —   |
| <b>Other<sup>3</sup></b>                 |                             |                            |                               |                                       |   |
| Purchases (thousand kWh)                 | 682,847                     | 272,301                    | 420,643                       | —                                     | —   |
| Cost (dollars).....                      | 16,290,003                  | 6,008,305                  | 8,598,413                     | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....    | —                           | —                          | —                             | —                                     | —   |
| Demand.....                              | 499,200                     | —                          | 244,774                       | —                                     | —   |
| Energy.....                              | 15,787,803                  | 6,190,355                  | 8,353,639                     | —                                     | —   |
| Other <sup>2</sup> .....                 | 3,000                       | -182,050                   | —                             | —                                     | —   |
| <b>Total</b>                             |                             |                            |                               |                                       |   |
| Purchases (thousand kWh)                 | 1,752,398                   | 4,460,488                  | 2,013,295                     | —                                     | —   |
| Cost (dollars).....                      | 36,215,548                  | 77,271,693                 | 37,732,115                    | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....    | —                           | —                          | —                             | —                                     | —   |
| Demand.....                              | 1,558,780                   | 16,747                     | 2,208,031                     | —                                     | —   |
| Energy.....                              | 34,545,768                  | 69,297,706                 | 35,524,084                    | —                                     | —   |
| Other <sup>2</sup> .....                 | 111,000                     | 7,957,240                  | —                             | —                                     | —   |

<sup>1</sup> Monetary settlements from contracts where electricity is not taken.

<sup>2</sup> Includes other transactions involving line and substation rentals, system support charges, and special contract transactions.

<sup>3</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

<sup>4</sup> FERC Form 1 respondent with purchased power transactions, but no sales for resale transactions.

<sup>5</sup> FERC Form 1 respondent with sales for resale transactions, but no purchased power transactions.

<sup>6</sup> FERC Form 1 respondent with only wheeling.

<sup>7</sup> FERC Form 1 respondent with only exchanges.

<sup>8</sup> FERC Form 1 respondent with no purchased power, sales for resale, exchanges, or wheeling.

—Not Applicable

Notes: \*For identification purposes, the utilities are listed in the State in which the corporate office is located. \*Totals may not equal sum of components because of independent rounding.

Sources: \*Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." \*FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996**

| Purchaser of Electricity by Ownership Class | Alabama<br>Alabama Power Co | Alabama<br>Southern Electric Generating Co <sup>5</sup> | Alaska<br>Alaska Electric Light & Power <sup>4</sup> | Arizona<br>Ajo Improvement Co <sup>8</sup> | Arizona<br>Arizona Public Service Co | Arizona<br>Century Power Corp <sup>5</sup> | Arizona<br>Citizens Utilities Co |
|---|-----------------------------|---|--|--|--------------------------------------|--|----------------------------------|
| <b>Investor-Owned</b>                       |                             |   |  |  |                                      |  |                                  |
| Sales (thousand kWh) .....                  | 5,040,888                   | 5,559,212   | —  | —  | 1,789,693                            | —  | —                                |
| Revenue (dollars) .....                     | 219,804,540                 | 151,543,206   | —  | —  | 63,240,463                           | —  | —                                |
| Demand Charge Only <sup>1</sup> .....       | —                           | —   | —  | —  | —                                    | —  | —                                |
| Demand .....                                | —                           | —   | —  | —  | 31,205,532                           | —  | —                                |
| Energy .....                                | 219,804,540                 | 151,543,206   | —  | —  | 32,034,931                           | —  | —                                |
| Other <sup>2</sup> .....                    | —                           | —   | —  | —  | —                                    | —  | —                                |
| <b>Federal</b>                              |                             |   |  |  |                                      |  |                                  |
| Sales (thousand kWh) .....                  | 37,076                      | —   | —  | —  | 53,443                               | —  | —                                |
| Revenue (dollars) .....                     | 1,071,386                   | —   | —  | —  | 6,330,305                            | —  | —                                |
| Demand Charge Only <sup>1</sup> .....       | —                           | —   | —  | —  | 5,004                                | —  | —                                |
| Demand .....                                | —                           | —   | —  | —  | 5,349,651                            | —  | —                                |
| Energy .....                                | 1,071,386                   | —   | —  | —  | 975,650                              | —  | —                                |
| Other <sup>2</sup> .....                    | —                           | —   | —  | —  | —                                    | —  | —                                |
| <b>State and Other</b>                      |                             |   |  |  |                                      |  |                                  |
| <b>Government</b>                           |                             |   |  |  |                                      |  |                                  |
| Sales (thousand kWh) .....                  | 4,205                       | —   | —  | —  | 276,917                              | —  | —                                |
| Revenue (dollars) .....                     | 124,360                     | —   | —  | —  | 8,876,910                            | —  | —                                |
| Demand Charge Only <sup>1</sup> .....       | —                           | —   | —  | —  | 5,004                                | —  | —                                |
| Demand .....                                | —                           | —   | —  | —  | 4,040,929                            | —  | —                                |
| Energy .....                                | 124,360                     | —   | —  | —  | 4,830,977                            | —  | —                                |
| Other <sup>2</sup> .....                    | —                           | —   | —  | —  | —                                    | —  | —                                |
| <b>Municipal</b>                            |                             |   |  |  |                                      |  |                                  |
| Sales (thousand kWh) .....                  | 3,807,379                   | —   | —  | —  | 191,405                              | —  | —                                |
| Revenue (dollars) .....                     | 146,932,219                 | —   | —  | —  | 3,093,599                            | —  | —                                |
| Demand Charge Only <sup>1</sup> .....       | —                           | —   | —  | —  | —                                    | —  | —                                |
| Demand .....                                | 48,684,214                  | —   | —  | —  | 281,688                              | —  | —                                |
| Energy .....                                | 110,130,536                 | —   | —  | —  | 2,811,911                            | —  | —                                |
| Other <sup>2</sup> .....                    | -11,882,531                 | —   | —  | —  | —                                    | —  | —                                |
| <b>Cooperative</b>                          |                             |   |  |  |                                      |  |                                  |
| Sales (thousand kWh) .....                  | 532,364                     | —   | —  | —  | 263,000                              | —  | —                                |
| Revenue (dollars) .....                     | 19,813,950                  | —   | —  | —  | 3,315,555                            | —  | —                                |
| Demand Charge Only <sup>1</sup> .....       | —                           | —   | —  | —  | —                                    | —  | —                                |
| Demand .....                                | 8,238,239                   | —   | —  | —  | —                                    | —  | —                                |
| Energy .....                                | 13,633,129                  | —   | —  | —  | 3,315,555                            | —  | —                                |
| Other <sup>2</sup> .....                    | -2,057,418                  | —   | —  | —  | —                                    | —  | —                                |
| <b>Other<sup>3</sup></b>                    |                             |   |  |  |                                      |  |                                  |
| Sales (thousand kWh) .....                  | 10,361,390                  | —   | —  | —  | 792,776                              | —  | —                                |
| Revenue (dollars) .....                     | 220,542,252                 | —   | —  | —  | 13,703,569                           | —  | —                                |
| Demand Charge Only <sup>1</sup> .....       | —                           | —   | —  | —  | —                                    | —  | —                                |
| Demand .....                                | —                           | —   | —  | —  | 753,121                              | —  | —                                |
| Energy .....                                | 207,100,990                 | —   | —  | —  | 12,950,448                           | —  | —                                |
| Other <sup>2</sup> .....                    | 13,441,262                  | —   | —  | —  | —                                    | —  | —                                |
| <b>Total</b>                                |                             |   |  |  |                                      |  |                                  |
| Sales (thousand kWh) .....                  | 19,783,302                  | 5,559,212   | —  | —  | 3,367,234                            | —  | —                                |
| Revenue (dollars) .....                     | 608,288,707                 | 151,543,206   | —  | —  | 98,560,401                           | —  | —                                |
| Demand Charge Only <sup>1</sup> .....       | —                           | —   | —  | —  | 10,008                               | —  | —                                |
| Demand .....                                | 56,922,453                  | —   | —  | —  | 41,630,921                           | —  | —                                |
| Energy .....                                | 551,864,941                 | 151,543,206   | —  | —  | 56,919,472                           | —  | —                                |
| Other <sup>2</sup> .....                    | -498,687                    | —   | —  | —  | —                                    | —  | —                                |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Arizona<br>Tucson Electric Power Co | Arkansas<br>Arkansas Power & Light Co | Arkansas<br>Entergy Power Co | California<br>Pacific Gas & Electric Co | California<br>San Diego Gas & Electric Co | California<br>Southern California Edison Co | Colorado<br>Public Service Co of Colorado |
|---|-------------------------------------|---------------------------------------|------------------------------|---|---|---|---|
| <b>Investor-Owned</b>                       |                                     |                                       |                              |   |   |   |   |
| Sales (thousand kWh).....                   | 1,372,035                           | 2,282,763                             | —                            | 255,598                                 | 184,514                                   | 551,587                                     | 1,226,785                                 |
| Revenue (dollars).....                      | 22,250,836                          | 60,144,630                            | —                            | 4,025,321                               | 2,940,572                                 | 30,151,775                                  | 34,908,185                                |
| Demand Charge Only <sup>1</sup> .....       | —                                   | 568,531                               | —                            | —                                       | —   | 1,260,000                                   | —   |
| Demand.....                                 | 1,436,739                           | 21,573,529                            | —                            | —                                       | —   | 11,462,524                                  | 16,711,600                                |
| Energy.....                                 | 20,814,097                          | 38,002,570                            | —                            | 3,861,700                               | 2,940,572                                 | 15,529,361                                  | 19,297,367                                |
| Other <sup>2</sup> .....                    | —                                   | —                                     | —                            | 163,621                                 | —   | 1,899,890                                   | -1,100,782                                |
| <b>Federal</b>                              |                                     |                                       |                              |   |   |   |   |
| Sales (thousand kWh).....                   | 3,000                               | —                                     | —                            | 23,041                                  | 6,400                                     | 41,163                                      | 19,880                                    |
| Revenue (dollars).....                      | 61,678                              | —                                     | —                            | -10,553,211                             | 124,520                                   | 153,954                                     | 381,012                                   |
| Demand Charge Only <sup>1</sup> .....       | —                                   | —                                     | —                            | 2,056,250                               | —   | —   | —   |
| Demand.....                                 | —                                   | —                                     | —                            | 1,872                                   | —   | —   | —   |
| Energy.....                                 | 61,678                              | —                                     | —                            | 307,031                                 | 124,520                                   | 153,954                                     | 381,012                                   |
| Other <sup>2</sup> .....                    | —                                   | —                                     | —                            | -12,918,364                             | —   | —   | —   |
| <b>State and Other</b>                      |                                     |                                       |                              |   |   |   |   |
| <b>Government</b>                           |                                     |                                       |                              |   |   |   |   |
| Sales (thousand kWh).....                   | 706,250                             | —                                     | —                            | 341,381                                 | 10,386                                    | 243,853                                     | 39,823                                    |
| Revenue (dollars).....                      | 39,583,127                          | 166,320                               | —                            | 61,521,092                              | 251,183                                   | 31,231,224                                  | 653,658                                   |
| Demand Charge Only <sup>1</sup> .....       | —                                   | 166,320                               | —                            | —                                       | —   | —   | —   |
| Demand.....                                 | 26,693,734                          | —                                     | —                            | 54,142,978                              | —   | 23,277,863                                  | —   |
| Energy.....                                 | 12,889,393                          | —                                     | —                            | 7,329,865                               | 251,183                                   | 6,753,283                                   | 653,658                                   |
| Other <sup>2</sup> .....                    | —                                   | —                                     | —                            | 48,249                                  | —   | 1,200,078                                   | —   |
| <b>Municipal</b>                            |                                     |                                       |                              |   |   |   |   |
| Sales (thousand kWh).....                   | 183,109                             | 1,763,633                             | —                            | 470,715                                 | 753                                       | 658,856                                     | 70,529                                    |
| Revenue (dollars).....                      | 2,850,916                           | 76,104,968                            | —                            | 24,681,658                              | 51,307                                    | 21,434,435                                  | 2,196,279                                 |
| Demand Charge Only <sup>1</sup> .....       | —                                   | 122,816                               | —                            | —                                       | 20,000                                    | 262,500                                     | —   |
| Demand.....                                 | —                                   | 21,772,335                            | —                            | 16,217,786                              | —   | 11,346,765                                  | 923,408                                   |
| Energy.....                                 | 2,850,916                           | 54,209,817                            | —                            | 8,314,202                               | 31,307                                    | 9,431,992                                   | 1,389,711                                 |
| Other <sup>2</sup> .....                    | —                                   | —                                     | —                            | 149,670                                 | —   | 393,178                                     | -116,840                                  |
| <b>Cooperative</b>                          |                                     |                                       |                              |   |   |   |   |
| Sales (thousand kWh).....                   | 148,939                             | 936,389                               | —                            | —                                       | 200                                       | 11,864                                      | 1,761,456                                 |
| Revenue (dollars).....                      | 2,054,668                           | 34,316,279                            | —                            | —                                       | 4,200                                     | 280,803                                     | 78,446,007                                |
| Demand Charge Only <sup>1</sup> .....       | —                                   | —                                     | —                            | —                                       | —   | —   | —   |
| Demand.....                                 | —                                   | 16,450,207                            | —                            | —                                       | —   | 1,040                                       | 51,869,805                                |
| Energy.....                                 | 2,054,668                           | 17,866,072                            | —                            | —                                       | 4,200                                     | 279,763                                     | 33,359,989                                |
| Other <sup>2</sup> .....                    | —                                   | —                                     | —                            | —                                       | —   | —   | -6,783,787                                |
| <b>Other<sup>3</sup></b>                    |                                     |                                       |                              |   |   |   |   |
| Sales (thousand kWh).....                   | 946,964                             | 12,207,651                            | —                            | 122,404                                 | 447,693                                   | 279,705                                     | 242,744                                   |
| Revenue (dollars).....                      | 14,712,001                          | 285,366,592                           | —                            | 2,180,501                               | 9,888,514                                 | 6,167,840                                   | 3,892,710                                 |
| Demand Charge Only <sup>1</sup> .....       | —                                   | —                                     | —                            | —                                       | 262,500                                   | —   | —   |
| Demand.....                                 | —                                   | 15,448,780                            | —                            | 45,512                                  | 745,700                                   | 840,000                                     | —   |
| Energy.....                                 | 14,712,001                          | 265,741,377                           | —                            | 2,119,364                               | 8,880,314                                 | 5,661,538                                   | 3,892,710                                 |
| Other <sup>2</sup> .....                    | —                                   | 4,176,435                             | —                            | 15,625                                  | —   | -333,698                                    | —   |
| <b>Total</b>                                |                                     |                                       |                              |   |   |   |   |
| Sales (thousand kWh).....                   | 3,360,297                           | 17,190,436                            | —                            | 1,213,139                               | 649,946                                   | 1,787,028                                   | 3,361,217                                 |
| Revenue (dollars).....                      | 81,513,226                          | 456,098,789                           | —                            | 81,855,361                              | 13,260,296                                | 89,420,031                                  | 120,477,851                               |
| Demand Charge Only <sup>1</sup> .....       | —                                   | 857,667                               | —                            | 2,056,250                               | 282,500                                   | 1,522,500                                   | —   |
| Demand.....                                 | 28,130,473                          | 75,244,851                            | —                            | 70,408,148                              | 745,700                                   | 46,928,192                                  | 69,504,813                                |
| Energy.....                                 | 53,382,753                          | 375,819,836                           | —                            | 21,932,162                              | 12,232,096                                | 37,809,891                                  | 58,974,447                                |
| Other <sup>2</sup> .....                    | —                                   | 4,176,435                             | —                            | -12,541,199                             | —   | 3,159,448                                   | -8,001,409                                |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Colorado<br>Utilicorp<br>United<br>Inc | Connecticut<br>Connecticut<br>Light &<br>Power<br>Co | Connecticut<br>Connecticut<br>Yankee<br>Atomic Power<br>Co <sup>5</sup> | Connecticut<br>United<br>Illuminating<br>Co | Delaware<br>Delmarva<br>Power<br>& Light<br>Co | District of<br>Columbia<br>Potomac<br>Electric<br>Power Co | Florida<br>Florida<br>Power &<br>Light<br>Co |
|---|--|--|---|---|--|--|--|
| <b>Investor-Owned</b>                       |  |  |   |   |  |  |  |
| Sales (thousand kWh) .....                  | —                                      | 1,122,593  | 2,770,212   | 722,555                                     | 51,180   | 3,933,883  | 407,985                                      |
| Revenue (dollars) .....                     | —                                      | 52,460,371   | 207,659,698   | 28,621,486                                  | 1,269,639                                      | 92,882,849   | 15,601,035                                   |
| Demand Charge Only <sup>1</sup> .....       | —                                      | —  | —   | —   | —  | —  | —  |
| Demand .....                                | —                                      | —  | —   | 7,255,665                                   | —  | 118,096  | 22,997                                       |
| Energy .....                                | —                                      | 23,579,319   | 14,692,949  | 21,365,821                                  | 1,269,639                                      | 122,666  | 15,578,038                                   |
| Other <sup>2</sup> .....                    | —                                      | 28,881,052   | 192,966,749   | —   | —  | 92,642,087   | —  |
| <b>Federal</b>                              |  |  |   |   |  |  |  |
| Sales (thousand kWh) .....                  | —                                      | —  | —   | —   | —  | —  | 25,888                                       |
| Revenue (dollars) .....                     | —                                      | —  | —   | —   | —  | —  | 986,352                                      |
| Demand Charge Only <sup>1</sup> .....       | —                                      | —  | —   | —   | —  | —  | —  |
| Demand .....                                | —                                      | —  | —   | —   | —  | —  | —  |
| Energy .....                                | —                                      | —  | —   | —   | —  | —  | 986,352                                      |
| Other <sup>2</sup> .....                    | —                                      | —  | —   | —   | —  | —  | —  |
| <b>State and Other</b>                      |  |  |   |   |  |  |  |
| <b>Government</b>                           |  |  |   |   |  |  |  |
| Sales (thousand kWh) .....                  | —                                      | 39,050   | —   | —   | —  | —  | 7,507  |
| Revenue (dollars) .....                     | —                                      | 2,448,976  | —   | —   | —  | —  | 318,655                                      |
| Demand Charge Only <sup>1</sup> .....       | —                                      | —  | —   | —   | —  | —  | —  |
| Demand .....                                | —                                      | —  | —   | —   | —  | —  | 171,948                                      |
| Energy .....                                | —                                      | 1,201,133  | —   | —   | —  | —  | 13,436                                       |
| Other <sup>2</sup> .....                    | —                                      | 1,247,843  | —   | —   | —  | —  | 133,271                                      |
| <b>Municipal</b>                            |  |  |   |   |  |  |  |
| Sales (thousand kWh) .....                  | —                                      | 1,691,586  | —   | —   | 1,223,951                                      | —  | 1,133,175                                    |
| Revenue (dollars) .....                     | —                                      | 85,854,998   | —   | —   | 44,304,746                                     | —  | 30,162,808                                   |
| Demand Charge Only <sup>1</sup> .....       | —                                      | —  | —   | —   | —  | —  | —  |
| Demand .....                                | —                                      | —  | —   | —   | 10,775,264                                     | —  | 8,575,655                                    |
| Energy .....                                | —                                      | 36,209,229   | —   | —   | 33,378,135                                     | —  | 12,057,239                                   |
| Other <sup>2</sup> .....                    | —                                      | 49,645,769   | —   | —   | 151,347  | —  | 9,529,914                                    |
| <b>Cooperative</b>                          |  |  |   |   |  |  |  |
| Sales (thousand kWh) .....                  | —                                      | 36,353   | —   | —   | 513,109  | 2,564,785  | 1,060,083                                    |
| Revenue (dollars) .....                     | —                                      | 1,101,856  | —   | —   | 33,724,913                                     | 121,907,893  | 85,209,676                                   |
| Demand Charge Only <sup>1</sup> .....       | —                                      | —  | —   | —   | —  | —  | —  |
| Demand .....                                | —                                      | —  | —   | —   | 21,976,693                                     | 53,748,673   | 58,030,920                                   |
| Energy .....                                | —                                      | 747,881  | —   | —   | 12,015,304                                     | 73,840,406   | 5,428,535                                    |
| Other <sup>2</sup> .....                    | —                                      | 353,975  | —   | —   | -267,084                                       | -5,681,186   | 21,750,221                                   |
| <b>Other<sup>3</sup></b>                    |  |  |   |   |  |  |  |
| Sales (thousand kWh) .....                  | —                                      | 1,919,703  | —   | 1,537,868                                   | 2,400,137                                      | 3,134,421  | 829,505                                      |
| Revenue (dollars) .....                     | —                                      | 44,912,766   | —   | 44,223,057                                  | 61,990,553                                     | 82,812,149   | 26,230,262                                   |
| Demand Charge Only <sup>1</sup> .....       | —                                      | —  | —   | —   | —  | 626,190  | —  |
| Demand .....                                | —                                      | —  | —   | 263,934                                     | —  | —  | —  |
| Energy .....                                | —                                      | 34,824,234   | —   | 43,792,645                                  | 61,990,553                                     | —  | 26,230,262                                   |
| Other <sup>2</sup> .....                    | —                                      | 10,088,532   | —   | 166,478                                     | —  | 82,185,959   | —  |
| <b>Total</b>                                |  |  |   |   |  |  |  |
| Sales (thousand kWh) .....                  | —                                      | 4,809,285  | 2,770,212   | 2,260,423                                   | 4,188,377                                      | 9,633,089  | 3,464,143                                    |
| Revenue (dollars) .....                     | —                                      | 186,778,967  | 207,659,698   | 72,844,543                                  | 141,289,851                                    | 297,602,891  | 158,508,788                                  |
| Demand Charge Only <sup>1</sup> .....       | —                                      | —  | —   | —   | —  | 626,190  | —  |
| Demand .....                                | —                                      | —  | —   | 7,519,599                                   | 32,751,957                                     | 53,866,769   | 66,801,520                                   |
| Energy .....                                | —                                      | 96,561,796   | 14,692,949  | 65,158,466                                  | 108,653,631                                    | 73,963,072   | 60,293,862                                   |
| Other <sup>2</sup> .....                    | —                                      | 90,217,171   | 192,966,749   | 166,478                                     | -115,737                                       | 169,146,860  | 31,413,406                                   |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Florida            | Florida       | Florida           | Georgia          | Georgia                      | Hawaii                             | Hawaii                                |
|---|--------------------|---------------|-------------------|------------------|------------------------------|------------------------------------|---------------------------------------|
|   | Florida Power Corp | Gulf Power Co | Tampa Electric Co | Georgia Power Co | Savannah Electric & Power Co | Citizens Utilities Co <sup>4</sup> | Hawaiian Electric Co Inc <sup>4</sup> |
| <b>Investor-Owned</b>                       |                    |               |                   |                  |                              |                                    |                                       |
| Sales (thousand kWh).....                   | 191,414            | 1,214,780     | 1,325,205         | 1,705,354        | 63,724                       | —                                  | —                                     |
| Revenue (dollars).....                      | 10,037,349         | 52,258,509    | 32,114,925        | 59,030,144       | 1,201,507                    | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....       | 6,169,800          | —             | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                                 | —                  | 26,803,275    | 5,903,278         | 27,400,775       | —                            | —                                  | —                                     |
| Energy.....                                 | 3,867,549          | 27,678,058    | 26,125,480        | 31,629,369       | 1,201,507                    | —                                  | —                                     |
| Other <sup>2</sup> .....                    | —                  | -2,222,824    | 86,167            | —                | —                            | —                                  | —                                     |
| <b>Federal</b>                              |                    |               |                   |                  |                              |                                    |                                       |
| Sales (thousand kWh).....                   | 44,087             | 7,132         | —                 | 54,870           | 2,768                        | —                                  | —                                     |
| Revenue (dollars).....                      | 869,453            | 185,968       | —                 | 1,585,594        | 79,991                       | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....       | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                                 | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| Energy.....                                 | 869,453            | 185,968       | —                 | 1,585,594        | 79,991                       | —                                  | —                                     |
| Other <sup>2</sup> .....                    | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| <b>State and Other</b>                      |                    |               |                   |                  |                              |                                    |                                       |
| <b>Government</b>                           |                    |               |                   |                  |                              |                                    |                                       |
| Sales (thousand kWh).....                   | —                  | 809           | —                 | 715,350          | 314                          | —                                  | —                                     |
| Revenue (dollars).....                      | —                  | 21,882        | —                 | 17,991,980       | 9,291                        | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....       | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                                 | —                  | —             | —                 | 1,534,973        | —                            | —                                  | —                                     |
| Energy.....                                 | —                  | 21,882        | —                 | 16,236,882       | 9,291                        | —                                  | —                                     |
| Other <sup>2</sup> .....                    | —                  | —             | —                 | 220,125          | —                            | —                                  | —                                     |
| <b>Municipal</b>                            |                    |               |                   |                  |                              |                                    |                                       |
| Sales (thousand kWh).....                   | 1,337,516          | 194,247       | 1,333,790         | 1,361,893        | 13,469                       | —                                  | —                                     |
| Revenue (dollars).....                      | 70,735,769         | 7,955,402     | 31,033,602        | 45,713,078       | 259,783                      | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....       | 107,121            | —             | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                                 | 34,335,691         | 3,956,344     | 7,131,974         | 19,620,328       | —                            | —                                  | —                                     |
| Energy.....                                 | 23,817,838         | 4,274,679     | 23,901,628        | 25,460,830       | 259,783                      | —                                  | —                                     |
| Other <sup>2</sup> .....                    | 12,475,119         | -275,621      | —                 | 631,920          | —                            | —                                  | —                                     |
| <b>Cooperative</b>                          |                    |               |                   |                  |                              |                                    |                                       |
| Sales (thousand kWh).....                   | 893,588            | 18,532        | 397,261           | 3,813,516        | 1,527                        | —                                  | —                                     |
| Revenue (dollars).....                      | 71,189,766         | 679,888       | 9,642,419         | 164,600,772      | 44,843                       | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....       | —                  | 3,623         | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                                 | 39,522,070         | 70,200        | 2,122,418         | 94,587,776       | —                            | —                                  | —                                     |
| Energy.....                                 | 18,761,957         | 606,065       | 7,520,001         | 70,012,996       | 44,843                       | —                                  | —                                     |
| Other <sup>2</sup> .....                    | 12,905,739         | —             | —                 | —                | —                            | —                                  | —                                     |
| <b>Other<sup>3</sup></b>                    |                    |               |                   |                  |                              |                                    |                                       |
| Sales (thousand kWh).....                   | 241,128            | 808,244       | 185,130           | 1,397,566        | 51,616                       | —                                  | —                                     |
| Revenue (dollars).....                      | 6,464,341          | 19,860,764    | 20,504,928        | 42,544,835       | 3,532,244                    | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....       | —                  | —             | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                                 | —                  | 953,948       | 15,221,004        | 70,282           | 1,642,953                    | —                                  | —                                     |
| Energy.....                                 | 6,658,459          | 18,906,816    | 5,283,924         | 42,474,553       | 1,889,291                    | —                                  | —                                     |
| Other <sup>2</sup> .....                    | -194,118           | —             | —                 | —                | —                            | —                                  | —                                     |
| <b>Total</b>                                |                    |               |                   |                  |                              |                                    |                                       |
| Sales (thousand kWh).....                   | 2,707,733          | 2,243,744     | 3,241,386         | 9,048,549        | 133,418                      | —                                  | —                                     |
| Revenue (dollars).....                      | 159,296,678        | 80,962,413    | 93,295,874        | 331,466,403      | 5,127,659                    | —                                  | —                                     |
| Demand Charge Only <sup>1</sup> .....       | 6,276,921          | 3,623         | —                 | —                | —                            | —                                  | —                                     |
| Demand.....                                 | 73,857,761         | 31,783,767    | 30,378,674        | 143,214,134      | 1,642,953                    | —                                  | —                                     |
| Energy.....                                 | 53,975,256         | 51,673,468    | 62,831,033        | 187,400,224      | 3,484,706                    | —                                  | —                                     |
| Other <sup>2</sup> .....                    | 25,186,740         | -2,498,445    | 86,167            | 852,045          | —                            | —                                  | —                                     |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Hawaii<br>Maui Electric Co Ltd <sup>4</sup> | Idaho<br>Citizens Utilities Co <sup>4</sup> | Idaho<br>Idaho Power Co | Illinois<br>Central Illinois Light Co | Illinois<br>Central Illinois Public Service Co | Illinois<br>Commonwealth Edison Co | Illinois<br>Electric Energy Inc |
|---|---|---|-------------------------|---------------------------------------|--|------------------------------------|---------------------------------|
| <b>Investor-Owned</b>                       |   |   |                         |                                       |  |                                    |                                 |
| Sales (thousand kWh).....                   | —   | —   | 3,239,956               | 366,792                               | 2,523,763                                      | 8,384,204                          | 3,118,705                       |
| Revenue (dollars).....                      | —   | —   | 51,178,600              | 7,591,079                             | 60,065,354                                     | 133,319,237                        | 64,127,154                      |
| Demand Charge Only <sup>1</sup> .....       | —   | —   | 201,760                 | —                                     | —  | —                                  | —                               |
| Demand.....                                 | —   | —   | 4,095,000               | 702,750                               | 9,898,645                                      | 2,781,563                          | 32,410,347                      |
| Energy.....                                 | —   | —   | 46,881,840              | 6,888,329                             | 48,290,961                                     | 130,537,674                        | 31,310,989                      |
| Other <sup>2</sup> .....                    | —   | —   | —                       | —                                     | 1,875,748                                      | —                                  | 405,818                         |
| <b>Federal</b>                              |   |   |                         |                                       |  |                                    |                                 |
| Sales (thousand kWh).....                   | —   | —   | 6,668                   | —                                     | 274,850  | 1,360                              | 2,220                           |
| Revenue (dollars).....                      | —   | —   | 140,429                 | —                                     | 5,406,966                                      | 24,217                             | 29,609                          |
| Demand Charge Only <sup>1</sup> .....       | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Demand.....                                 | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Energy.....                                 | —   | —   | 140,429                 | —                                     | 5,406,966                                      | 24,217                             | 29,609                          |
| Other <sup>2</sup> .....                    | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| <b>State and Other</b>                      |   |   |                         |                                       |  |                                    |                                 |
| <b>Government</b>                           |   |   |                         |                                       |  |                                    |                                 |
| Sales (thousand kWh).....                   | —   | —   | 430,872                 | —                                     | —  | —                                  | —                               |
| Revenue (dollars).....                      | —   | —   | 8,136,962               | —                                     | —  | —                                  | —                               |
| Demand Charge Only <sup>1</sup> .....       | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Demand.....                                 | —   | —   | 2,373,000               | —                                     | —  | —                                  | —                               |
| Energy.....                                 | —   | —   | 5,763,962               | —                                     | —  | —                                  | —                               |
| Other <sup>2</sup> .....                    | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| <b>Municipal</b>                            |   |   |                         |                                       |  |                                    |                                 |
| Sales (thousand kWh).....                   | —   | —   | 201,127                 | 79,566                                | 1,273,256                                      | 1,815,643                          | —                               |
| Revenue (dollars).....                      | —   | —   | 4,534,005               | 1,888,662                             | 34,319,903                                     | 73,020,964                         | —                               |
| Demand Charge Only <sup>1</sup> .....       | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Demand.....                                 | —   | —   | 930,589                 | 492,333                               | 12,064,903                                     | 29,515,761                         | —                               |
| Energy.....                                 | —   | —   | 3,603,026               | 1,133,164                             | 21,874,663                                     | 43,502,579                         | —                               |
| Other <sup>2</sup> .....                    | —   | —   | 390                     | 263,165                               | 380,337  | 2,624                              | —                               |
| <b>Cooperative</b>                          |   |   |                         |                                       |  |                                    |                                 |
| Sales (thousand kWh).....                   | —   | —   | 78,612                  | —                                     | 794,652  | 206,100                            | —                               |
| Revenue (dollars).....                      | —   | —   | 1,862,510               | —                                     | 37,772,994                                     | 3,394,243                          | —                               |
| Demand Charge Only <sup>1</sup> .....       | —   | —   | —                       | —                                     | —  | —                                  | —                               |
| Demand.....                                 | —   | —   | —                       | —                                     | 24,925,488                                     | —                                  | —                               |
| Energy.....                                 | —   | —   | 1,862,510               | —                                     | 10,104,032                                     | 3,394,243                          | —                               |
| Other <sup>2</sup> .....                    | —   | —   | —                       | —                                     | 2,743,474                                      | —                                  | —                               |
| <b>Other<sup>3</sup></b>                    |   |   |                         |                                       |  |                                    |                                 |
| Sales (thousand kWh).....                   | —   | —   | 313,048                 | 312,072                               | 1,120,915                                      | 1,770,893                          | —                               |
| Revenue (dollars).....                      | —   | —   | 4,369,977               | 5,727,368                             | 24,131,407                                     | 25,281,905                         | —                               |
| Demand Charge Only <sup>1</sup> .....       | —   | —   | 24,300                  | —                                     | -1,194,972                                     | —                                  | —                               |
| Demand.....                                 | —   | —   | —                       | 8,000                                 | 1,668,839                                      | 274,533                            | —                               |
| Energy.....                                 | —   | —   | 4,345,677               | 5,719,368                             | 23,802,540                                     | 25,007,372                         | —                               |
| Other <sup>2</sup> .....                    | —   | —   | —                       | —                                     | -145,000                                       | —                                  | —                               |
| <b>Total</b>                                |   |   |                         |                                       |  |                                    |                                 |
| Sales (thousand kWh).....                   | —   | —   | 4,270,283               | 758,430                               | 5,987,436                                      | 12,178,200                         | 3,120,925                       |
| Revenue (dollars).....                      | —   | —   | 70,222,483              | 15,207,109                            | 161,696,624                                    | 235,040,566                        | 64,156,763                      |
| Demand Charge Only <sup>1</sup> .....       | —   | —   | 226,060                 | —                                     | -1,194,972                                     | —                                  | —                               |
| Demand.....                                 | —   | —   | 7,398,589               | 1,203,083                             | 48,557,875                                     | 32,571,857                         | 32,410,347                      |
| Energy.....                                 | —   | —   | 62,597,444              | 13,740,861                            | 109,479,162                                    | 202,466,085                        | 31,340,598                      |
| Other <sup>2</sup> .....                    | —   | —   | 390                     | 263,165                               | 4,854,559                                      | 2,624                              | 405,818                         |

See notes and footnotes at end of table.



**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Illinois<br>Illinois Power Co | Illinois<br>Mt Carmel Public Utility Co | Indiana<br>Alcoa Generating Corp <sup>4</sup> | Indiana<br>Commonwealth Edison of Indiana <sup>5</sup> | Indiana<br>Indiana Michigan Power Co | Indiana<br>Indianapolis Power & Light Co | Indiana<br>Northern Indiana Public Service Co |
|---|-------------------------------|---|---|--|--------------------------------------|--|---|
| <b>Investor-Owned</b>                       |                               |   |   |  |                                      |  |   |
| Sales (thousand kWh) .....                  | 2,933,873                     | —                                       | 10,451  | 1,851,957  | 3,263,655                            | 108,116                                  | 627,825                                       |
| Revenue (dollars) .....                     | 62,957,515                    | —                                       | 172,441                                       | 94,137,394   | 91,992,297                           | 1,785,676                                | 10,524,928                                    |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                       | —   | —  | 54,203                               | —  | —   |
| Demand .....                                | 10,262,916                    | —                                       | —   | 17,859,226   | 34,448,013                           | —  | 352,000                                       |
| Energy .....                                | 52,694,599                    | —                                       | 172,441                                       | 76,278,168   | 49,313,591                           | 1,785,676                                | 10,172,928                                    |
| Other <sup>2</sup> .....                    | —                             | —                                       | —   | —  | 8,176,490                            | —  | —   |
| <b>Federal</b>                              |                               |   |   |  |                                      |  |   |
| Sales (thousand kWh) .....                  | 380,634                       | —                                       | —   | —  | 105,190                              | —  | —   |
| Revenue (dollars) .....                     | 5,925,831                     | —                                       | —   | —  | 3,035,435                            | —  | —   |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand .....                                | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Energy .....                                | 5,925,831                     | —                                       | —   | —  | 2,684,929                            | —  | —   |
| Other <sup>2</sup> .....                    | —                             | —                                       | —   | —  | 350,506                              | —  | —   |
| <b>State and Other</b>                      |                               |   |   |  |                                      |  |   |
| <b>Government</b>                           |                               |   |   |  |                                      |  |   |
| Sales (thousand kWh) .....                  | —                             | —                                       | —   | —  | 344,161                              | 7,610                                    | 1,156   |
| Revenue (dollars) .....                     | —                             | —                                       | —   | —  | 13,025,817                           | 147,875                                  | 31,403  |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand .....                                | —                             | —                                       | —   | —  | 8,142,659                            | 34,072                                   | —   |
| Energy .....                                | —                             | —                                       | —   | —  | 4,753,411                            | 113,803                                  | 14,081  |
| Other <sup>2</sup> .....                    | —                             | —                                       | —   | —  | 129,747                              | —  | 17,322  |
| <b>Municipal</b>                            |                               |   |   |  |                                      |  |   |
| Sales (thousand kWh) .....                  | 40,474                        | 3,542                                   | —   | —  | 2,314,309                            | —  | 256,386                                       |
| Revenue (dollars) .....                     | 2,085,828                     | 129,755                                 | —   | —  | 84,698,254                           | —  | 11,976,658                                    |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                       | —   | —  | —                                    | —  | 1,929,277                                     |
| Demand .....                                | 105,644                       | 59,761                                  | —   | —  | 55,789,897                           | —  | 3,732,948                                     |
| Energy .....                                | 1,980,184                     | 54,199                                  | —   | —  | 29,749,660                           | —  | 8,845,339                                     |
| Other <sup>2</sup> .....                    | —                             | 15,795                                  | —   | —  | -841,303                             | —  | -2,530,906                                    |
| <b>Cooperative</b>                          |                               |   |   |  |                                      |  |   |
| Sales (thousand kWh) .....                  | 1,157,622                     | —                                       | —   | —  | 992,699                              | 290,215                                  | 53,481  |
| Revenue (dollars) .....                     | 49,124,390                    | —                                       | —   | —  | 28,786,663                           | 5,430,239                                | 6,408,381                                     |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand .....                                | 31,755,904                    | —                                       | —   | —  | 15,023,304                           | 707,717                                  | 4,856,608                                     |
| Energy .....                                | 17,368,486                    | —                                       | —   | —  | 13,825,014                           | 4,841,785                                | 1,551,773                                     |
| Other <sup>2</sup> .....                    | —                             | —                                       | —   | —  | -61,655                              | -119,263                                 | —   |
| <b>Other<sup>3</sup></b>                    |                               |   |   |  |                                      |  |   |
| Sales (thousand kWh) .....                  | 941,655                       | —                                       | —   | —  | 11,719,629                           | 348,283                                  | 739,498                                       |
| Revenue (dollars) .....                     | 17,468,787                    | —                                       | —   | —  | 169,939,578                          | 7,089,350                                | 14,331,090                                    |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                       | —   | —  | —                                    | —  | —   |
| Demand .....                                | —                             | —                                       | —   | —  | —                                    | 1,066,726                                | 424,071                                       |
| Energy .....                                | 17,468,787                    | —                                       | —   | —  | 160,505,137                          | 6,022,624                                | 13,907,019                                    |
| Other <sup>2</sup> .....                    | —                             | —                                       | —   | —  | 9,434,441                            | —  | —   |
| <b>Total</b>                                |                               |   |   |  |                                      |  |   |
| Sales (thousand kWh) .....                  | 5,454,258                     | 3,542                                   | 10,451  | 1,851,957  | 18,739,643                           | 754,224                                  | 1,678,346                                     |
| Revenue (dollars) .....                     | 137,562,351                   | 129,755                                 | 172,441                                       | 94,137,394   | 391,478,044                          | 14,453,140                               | 43,272,460                                    |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                       | —   | —  | 54,203                               | —  | 1,929,277                                     |
| Demand .....                                | 42,124,464                    | 59,761                                  | —   | 17,859,226   | 113,403,873                          | 1,808,515                                | 9,365,627                                     |
| Energy .....                                | 95,437,887                    | 54,199                                  | 172,441                                       | 76,278,168   | 260,831,742                          | 12,763,888                               | 34,491,140                                    |
| Other <sup>2</sup> .....                    | —                             | 15,795                                  | —   | —  | 17,188,226                           | -119,263                                 | -2,513,584                                    |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Indiana<br>PSI<br>Energy<br>Inc | Indiana<br>Southern<br>Indiana Gas<br>& Electric<br>Co | Iowa<br>Interstate<br>Power<br>Co | Iowa<br>Iowa<br>Electric<br>Light &<br>Power Co | Iowa<br>Iowa<br>Southern<br>Utilities<br>Co | Iowa<br>Iowa-<br>Illinois<br>Gas &<br>Electric<br>Co | Iowa<br>Midwest<br>Power<br>Systems<br>Inc |
|---|---------------------------------|--|-----------------------------------|---|---|--|--|
| <b>Investor-Owned</b>                       |                                 |  |                                   |   |   |  |  |
| Sales (thousand kWh) .....                  | 4,787,426                       | 312,721  | 229,977                           | —   | —   | —  | —  |
| Revenue (dollars) .....                     | 95,125,782                      | 6,848,273  | 3,103,944                         | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | 126,250                         | —  | —                                 | —   | —   | —  | —  |
| Demand .....                                | 3,190,293                       | 5,000  | —                                 | —   | —   | —  | —  |
| Energy .....                                | 91,809,239                      | 6,843,273  | 3,103,944                         | —   | —   | —  | —  |
| Other <sup>2</sup> .....                    | —                               | —  | —                                 | —   | —   | —  | —  |
| <b>Federal</b>                              |                                 |  |                                   |   |   |  |  |
| Sales (thousand kWh) .....                  | 30,050                          | —  | 845                               | —   | —   | —  | —  |
| Revenue (dollars) .....                     | 1,306,380                       | —  | 8,460                             | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —                               | —  | —                                 | —   | —   | —  | —  |
| Demand .....                                | 676,000                         | —  | —                                 | —   | —   | —  | —  |
| Energy .....                                | 630,380                         | —  | 8,460                             | —   | —   | —  | —  |
| Other <sup>2</sup> .....                    | —                               | —  | —                                 | —   | —   | —  | —  |
| <b>State and Other</b>                      |                                 |  |                                   |   |   |  |  |
| <b>Government</b>                           |                                 |  |                                   |   |   |  |  |
| Sales (thousand kWh) .....                  | 1,498,139                       | —  | 1,541                             | —   | —   | —  | —  |
| Revenue (dollars) .....                     | 31,161,323                      | —  | 34,190                            | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —                               | —  | —                                 | —   | —   | —  | —  |
| Demand .....                                | 8,741,622                       | —  | —                                 | —   | —   | —  | —  |
| Energy .....                                | 26,134,318                      | —  | 34,190                            | —   | —   | —  | —  |
| Other <sup>2</sup> .....                    | -3,714,617                      | —  | —                                 | —   | —   | —  | —  |
| <b>Municipal</b>                            |                                 |  |                                   |   |   |  |  |
| Sales (thousand kWh) .....                  | 805,148                         | 554,008  | 224,360                           | —   | —   | —  | —  |
| Revenue (dollars) .....                     | 22,403,666                      | 22,750,555   | 7,711,466                         | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —                               | —  | —                                 | —   | —   | —  | —  |
| Demand .....                                | 8,988,213                       | 10,459,299   | 2,629,803                         | —   | —   | —  | —  |
| Energy .....                                | 14,070,795                      | 11,537,257   | 5,081,663                         | —   | —   | —  | —  |
| Other <sup>2</sup> .....                    | -655,342                        | 753,999  | —                                 | —   | —   | —  | —  |
| <b>Cooperative</b>                          |                                 |  |                                   |   |   |  |  |
| Sales (thousand kWh) .....                  | 1,679,588                       | 200,596  | 10,726                            | —   | —   | —  | —  |
| Revenue (dollars) .....                     | 51,358,183                      | 5,151,442  | 1,286,590                         | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —                               | —  | —                                 | —   | —   | —  | —  |
| Demand .....                                | 23,458,797                      | 2,201,780  | 1,060,979                         | —   | —   | —  | —  |
| Energy .....                                | 28,356,703                      | 2,949,662  | 225,611                           | —   | —   | —  | —  |
| Other <sup>2</sup> .....                    | -457,317                        | —  | —                                 | —   | —   | —  | —  |
| <b>Other<sup>3</sup></b>                    |                                 |  |                                   |   |   |  |  |
| Sales (thousand kWh) .....                  | 1,644,197                       | 430,156  | —                                 | —   | —   | —  | —  |
| Revenue (dollars) .....                     | 43,981,430                      | 6,163,316  | —                                 | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | 166,667                         | —  | —                                 | —   | —   | —  | —  |
| Demand .....                                | 2,102,913                       | 147,500  | —                                 | —   | —   | —  | —  |
| Energy .....                                | 33,196,724                      | 6,015,816  | —                                 | —   | —   | —  | —  |
| Other <sup>2</sup> .....                    | 8,515,126                       | —  | —                                 | —   | —   | —  | —  |
| <b>Total</b>                                |                                 |  |                                   |   |   |  |  |
| Sales (thousand kWh) .....                  | 10,444,548                      | 1,497,481  | 467,449                           | —   | —   | —  | —  |
| Revenue (dollars) .....                     | 245,336,764                     | 40,913,586   | 12,144,650                        | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | 292,917                         | —  | —                                 | —   | —   | —  | —  |
| Demand .....                                | 47,157,838                      | 12,813,579   | 3,690,782                         | —   | —   | —  | —  |
| Energy .....                                | 194,198,159                     | 27,346,008   | 8,453,868                         | —   | —   | —  | —  |
| Other <sup>2</sup> .....                    | 3,687,850                       | 753,999  | —                                 | —   | —   | —  | —  |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Kansas<br>Kansas Gas & Electric Co | Kansas<br>Western Resources Inc | Kentucky<br>Kentucky Power Co | Kentucky<br>Kentucky Utilities Co | Kentucky<br>Louisville Gas & Electric Co | Kentucky<br>Union Light Heat & Power Co | Louisiana<br>Catalyst Old River Hydro <sup>5</sup> |
|---|------------------------------------|---------------------------------|-------------------------------|-----------------------------------|--|---|--|
| <b>Investor-Owned</b>                       |                                    |                                 |                               |                                   |  |   |  |
| Sales (thousand kWh).....                   | 784,358                            | 131,446                         | 519,011                       | 830,986                           | 505,040                                  | —                                       | 882,003  |
| Revenue (dollars).....                      | 18,229,663                         | 3,089,576                       | 13,850,755                    | 17,314,099                        | 12,148,272                               | —                                       | 56,277,910   |
| Demand Charge Only <sup>1</sup> .....       | —                                  | —                               | —                             | 26,730                            | —  | —                                       | —  |
| Demand.....                                 | 4,848,851                          | 309,000                         | 890,790                       | 1,848,120                         | 4,826,000                                | —                                       | —  |
| Energy.....                                 | 13,354,076                         | 2,780,576                       | 9,976,217                     | 16,336,379                        | 7,322,272                                | —                                       | 56,277,910   |
| Other <sup>2</sup> .....                    | 26,736                             | —                               | 2,983,748                     | -897,130                          | —  | —                                       | —  |
| <b>Federal</b>                              |                                    |                                 |                               |                                   |  |   |  |
| Sales (thousand kWh).....                   | —                                  | —                               | 38,269                        | 147,505                           | 302,120                                  | —                                       | —  |
| Revenue (dollars).....                      | —                                  | —                               | 1,102,249                     | 3,058,945                         | 5,784,389                                | —                                       | —  |
| Demand Charge Only <sup>1</sup> .....       | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Demand.....                                 | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Energy.....                                 | —                                  | —                               | 974,020                       | 3,058,945                         | 5,784,389                                | —                                       | —  |
| Other <sup>2</sup> .....                    | —                                  | —                               | 128,229                       | —                                 | —  | —                                       | —  |
| <b>State and Other</b>                      |                                    |                                 |                               |                                   |  |   |  |
| <b>Government</b>                           |                                    |                                 |                               |                                   |  |   |  |
| Sales (thousand kWh).....                   | 3,480                              | 496,934                         | 26,673                        | —                                 | 235,105                                  | —                                       | —  |
| Revenue (dollars).....                      | 89,513                             | 11,189,258                      | 570,408                       | —                                 | 4,214,255                                | —                                       | —  |
| Demand Charge Only <sup>1</sup> .....       | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Demand.....                                 | —                                  | 4,125,505                       | —                             | —                                 | 718,080                                  | —                                       | —  |
| Energy.....                                 | 89,513                             | 7,063,753                       | 497,558                       | —                                 | 3,496,175                                | —                                       | —  |
| Other <sup>2</sup> .....                    | —                                  | —                               | 72,850                        | —                                 | —  | —                                       | —  |
| <b>Municipal</b>                            |                                    |                                 |                               |                                   |  |   |  |
| Sales (thousand kWh).....                   | 649,678                            | 1,194,443                       | 181,028                       | 1,579,055                         | 176,256                                  | 53,069                                  | 56,354   |
| Revenue (dollars).....                      | 15,558,938                         | 32,131,558                      | 5,425,414                     | 47,801,426                        | 4,284,704                                | 2,300,431                               | 3,597,880  |
| Demand Charge Only <sup>1</sup> .....       | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Demand.....                                 | 1,780,936                          | 12,324,608                      | 2,447,835                     | 23,078,906                        | 1,826,500                                | 756,605                                 | —  |
| Energy.....                                 | 13,612,020                         | 19,872,546                      | 2,636,181                     | 36,910,731                        | 2,458,204                                | 1,683,868                               | 3,597,880  |
| Other <sup>2</sup> .....                    | 165,982                            | -65,596                         | 341,398                       | -12,188,211                       | —  | -140,042                                | —  |
| <b>Cooperative</b>                          |                                    |                                 |                               |                                   |  |   |  |
| Sales (thousand kWh).....                   | 108,559                            | 1,301,271                       | 127,593                       | 44,575                            | 429,617                                  | —                                       | —  |
| Revenue (dollars).....                      | 4,390,985                          | 38,605,866                      | 2,985,288                     | 893,810                           | 9,090,776                                | —                                       | —  |
| Demand Charge Only <sup>1</sup> .....       | 765,898                            | 7,860,000                       | —                             | —                                 | —  | —                                       | —  |
| Demand.....                                 | 1,669,800                          | 7,846,595                       | 860,620                       | —                                 | 1,877,936                                | —                                       | —  |
| Energy.....                                 | 1,955,287                          | 23,027,285                      | 1,822,545                     | 893,810                           | 7,212,840                                | —                                       | —  |
| Other <sup>2</sup> .....                    | —                                  | -128,014                        | 302,123                       | —                                 | —  | —                                       | —  |
| <b>Other<sup>3</sup></b>                    |                                    |                                 |                               |                                   |  |   |  |
| Sales (thousand kWh).....                   | 1,159,855                          | 78,248                          | 2,787,727                     | 1,118,248                         | 1,940,952                                | —                                       | —  |
| Revenue (dollars).....                      | 19,250,756                         | 1,613,394                       | 33,206,678                    | 20,140,074                        | 32,331,948                               | —                                       | —  |
| Demand Charge Only <sup>1</sup> .....       | —                                  | —                               | —                             | —                                 | —  | —                                       | —  |
| Demand.....                                 | —                                  | 12,706                          | —                             | —                                 | —  | —                                       | —  |
| Energy.....                                 | 19,250,756                         | 1,600,688                       | 29,794,720                    | 20,140,074                        | 32,331,948                               | —                                       | —  |
| Other <sup>2</sup> .....                    | —                                  | —                               | 3,411,958                     | —                                 | —  | —                                       | —  |
| <b>Total</b>                                |                                    |                                 |                               |                                   |  |   |  |
| Sales (thousand kWh).....                   | 2,705,930                          | 3,202,342                       | 3,680,301                     | 3,720,369                         | 3,589,090                                | 53,069                                  | 938,357  |
| Revenue (dollars).....                      | 57,519,855                         | 86,629,652                      | 57,140,792                    | 89,208,354                        | 67,854,344                               | 2,300,431                               | 59,875,790   |
| Demand Charge Only <sup>1</sup> .....       | 765,898                            | 7,860,000                       | —                             | 26,730                            | —  | —                                       | —  |
| Demand.....                                 | 8,299,587                          | 24,618,414                      | 4,199,245                     | 24,927,026                        | 9,248,516                                | 756,605                                 | —  |
| Energy.....                                 | 48,261,652                         | 54,344,848                      | 45,701,241                    | 77,339,939                        | 58,605,828                               | 1,683,868                               | 59,875,790   |
| Other <sup>2</sup> .....                    | 192,718                            | -193,610                        | 7,240,306                     | -13,085,341                       | —  | -140,042                                | —  |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Louisiana                         | Louisiana                  | Louisiana                      | Louisiana                      | Maine                    | Maine                  | Maine                       |
|---|-----------------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------|------------------------|-----------------------------|
|   | Central Louisiana Electric Co Inc | Louisiana Power & Light Co | New Orleans Public Service Inc | Southwestern Electric Power Co | Bangor Hydro-Electric Co | Central Maine Power Co | Maine Electric Power Co Inc |
| <b>Investor-Owned</b>                       |                                   |                            |                                |                                |                          |                        |                             |
| Sales (thousand kWh) .....                  | 151                               | —                          | —                              | 453,922                        | 319,530                  | 8,547                  | 1,981,126                   |
| Revenue (dollars) .....                     | 4,477                             | 3,265,796                  | —                              | 11,451,347                     | 7,394,002                | 325,523                | 49,192,518                  |
| Demand Charge Only <sup>1</sup> .....       | —                                 | 23,188                     | —                              | 1,295,320                      | —                        | —                      | —                           |
| Demand .....                                | —                                 | 1,975,820                  | —                              | 315,880                        | 18,744                   | —                      | —                           |
| Energy .....                                | —                                 | —                          | —                              | 9,840,147                      | 7,184,218                | 322,103                | 49,192,518                  |
| Other <sup>2</sup> .....                    | 4,477                             | 1,266,788                  | —                              | —                              | 191,040                  | 3,420                  | —                           |
| <b>Federal</b>                              |                                   |                            |                                |                                |                          |                        |                             |
| Sales (thousand kWh) .....                  | —                                 | —                          | —                              | 2,409                          | —                        | —                      | —                           |
| Revenue (dollars) .....                     | —                                 | —                          | —                              | 63,530                         | —                        | —                      | —                           |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Demand .....                                | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Energy .....                                | —                                 | —                          | —                              | 63,530                         | —                        | —                      | —                           |
| Other <sup>2</sup> .....                    | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| <b>State and Other</b>                      |                                   |                            |                                |                                |                          |                        |                             |
| <b>Government</b>                           |                                   |                            |                                |                                |                          |                        |                             |
| Sales (thousand kWh) .....                  | 806                               | —                          | —                              | 29,787                         | —                        | 1,536                  | —                           |
| Revenue (dollars) .....                     | 29,918                            | 690,519                    | —                              | 740,571                        | —                        | 145,341                | —                           |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Demand .....                                | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Energy .....                                | —                                 | 690,519                    | —                              | 740,571                        | —                        | 145,341                | —                           |
| Other <sup>2</sup> .....                    | 29,918                            | —                          | —                              | —                              | —                        | —                      | —                           |
| <b>Municipal</b>                            |                                   |                            |                                |                                |                          |                        |                             |
| Sales (thousand kWh) .....                  | 367,733                           | —                          | —                              | 696,364                        | 197                      | 172,840                | —                           |
| Revenue (dollars) .....                     | 11,238,273                        | —                          | —                              | 20,852,242                     | 13,568                   | 6,569,745              | —                           |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Demand .....                                | 1,526,130                         | —                          | —                              | 6,162,235                      | 3,417                    | 1,233,507              | —                           |
| Energy .....                                | 77,683                            | —                          | —                              | 14,690,007                     | 8,833                    | 5,323,978              | —                           |
| Other <sup>2</sup> .....                    | 9,634,460                         | —                          | —                              | —                              | 1,318                    | 12,260                 | —                           |
| <b>Cooperative</b>                          |                                   |                            |                                |                                |                          |                        |                             |
| Sales (thousand kWh) .....                  | 2,193                             | —                          | —                              | 3,090,540                      | 4,289                    | 9,235                  | —                           |
| Revenue (dollars) .....                     | 71,665                            | 7,030,586                  | —                              | 61,522,186                     | 300,627                  | 404,388                | —                           |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                          | —                              | —                              | —                        | —                      | —                           |
| Demand .....                                | —                                 | —                          | —                              | 21,516,054                     | 71,789                   | 102,133                | —                           |
| Energy .....                                | —                                 | —                          | —                              | 39,853,096                     | 192,402                  | 289,995                | —                           |
| Other <sup>2</sup> .....                    | 71,665                            | 7,030,586                  | —                              | 153,036                        | 36,436                   | 12,260                 | —                           |
| <b>Other<sup>3</sup></b>                    |                                   |                            |                                |                                |                          |                        |                             |
| Sales (thousand kWh) .....                  | 250,100                           | 1,125,497                  | 278,061                        | 3,088,806                      | 45,265                   | 2,189,217              | 124,478                     |
| Revenue (dollars) .....                     | 4,075,475                         | 52,763,660                 | 12,530,841                     | 63,076,303                     | 11,093,883               | 51,789,676             | 3,387,775                   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                          | —                              | 67,500                         | —                        | —                      | —                           |
| Demand .....                                | 75,600                            | 20,234,158                 | 4,001,482                      | —                              | —                        | —                      | —                           |
| Energy .....                                | —                                 | 26,975,851                 | 7,441,364                      | 62,613,847                     | 11,093,883               | 51,343,968             | 3,378,526                   |
| Other <sup>2</sup> .....                    | 3,999,875                         | 5,553,651                  | 1,087,995                      | 394,956                        | —                        | 445,708                | 9,249                       |
| <b>Total</b>                                |                                   |                            |                                |                                |                          |                        |                             |
| Sales (thousand kWh) .....                  | 620,983                           | 1,125,497                  | 278,061                        | 7,361,828                      | 369,281                  | 2,381,375              | 2,105,604                   |
| Revenue (dollars) .....                     | 15,419,808                        | 63,750,561                 | 12,530,841                     | 157,706,179                    | 18,802,080               | 59,234,673             | 52,580,293                  |
| Demand Charge Only <sup>1</sup> .....       | —                                 | 23,188                     | —                              | 1,362,820                      | —                        | —                      | —                           |
| Demand .....                                | 1,601,730                         | 22,209,978                 | 4,001,482                      | 27,994,169                     | 93,950                   | 1,335,640              | —                           |
| Energy .....                                | 77,683                            | 27,666,370                 | 7,441,364                      | 127,801,198                    | 18,479,336               | 57,425,385             | 52,571,044                  |
| Other <sup>2</sup> .....                    | 13,740,395                        | 13,851,025                 | 1,087,995                      | 547,992                        | 228,794                  | 473,648                | 9,249                       |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Maine<br>Maine Public Service Co | Maine<br>Maine Yankee Atomic Power Co <sup>5</sup> | Maryland<br>Allegheny Generating Co <sup>5</sup> | Maryland<br>Baltimore Gas & Electric Co | Maryland<br>Conowingo Power Co | Maryland<br>Potomac Edison Co | Massachusetts<br>Boston Edison Co |
|---|----------------------------------|--|--|---|--------------------------------|-------------------------------|-----------------------------------|
| <b>Investor-Owned</b>                       |                                  |  |  |   |                                |                               |                                   |
| Sales (thousand kWh) .....                  | 79,612                           | 4,736,406  | —  | 2,576,547                               | —                              | 1,196,617                     | 1,558,061                         |
| Revenue (dollars) .....                     | 1,868,290                        | 173,992,714  | 83,402,000                                       | 57,051,251                              | —                              | 58,731,362                    | 89,262,338                        |
| Demand Charge Only <sup>1</sup> .....       | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Demand .....                                | —                                | 150,746,799  | —  | —                                       | —                              | 5,922,369                     | 72,049,222                        |
| Energy .....                                | 1,804,327                        | 23,245,915   | —  | 57,051,251                              | —                              | 52,755,775                    | 17,213,116                        |
| Other <sup>2</sup> .....                    | 63,963                           | —  | 83,402,000                                       | —                                       | —                              | 53,218                        | —                                 |
| <b>Federal</b>                              |                                  |  |  |   |                                |                               |                                   |
| Sales (thousand kWh) .....                  | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Revenue (dollars) .....                     | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Demand Charge Only <sup>1</sup> .....       | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Demand .....                                | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Energy .....                                | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Other <sup>2</sup> .....                    | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| <b>State and Other</b>                      |                                  |  |  |   |                                |                               |                                   |
| <b>Government</b>                           |                                  |  |  |   |                                |                               |                                   |
| Sales (thousand kWh) .....                  | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Revenue (dollars) .....                     | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Demand Charge Only <sup>1</sup> .....       | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Demand .....                                | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Energy .....                                | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Other <sup>2</sup> .....                    | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| <b>Municipal</b>                            |                                  |  |  |   |                                |                               |                                   |
| Sales (thousand kWh) .....                  | 14,801                           | 264,862  | —  | —                                       | —                              | 653,337                       | 789,514                           |
| Revenue (dollars) .....                     | 759,502                          | 9,729,747  | —  | —                                       | —                              | 26,436,674                    | 43,683,847                        |
| Demand Charge Only <sup>1</sup> .....       | —                                | —  | —  | —                                       | —                              | —                             | 15,000                            |
| Demand .....                                | 260,608                          | 8,429,823  | —  | —                                       | —                              | 13,455,906                    | 30,000,342                        |
| Energy .....                                | 498,894                          | 1,299,924  | —  | —                                       | —                              | 12,392,187                    | 13,668,505                        |
| Other <sup>2</sup> .....                    | —                                | —  | —  | —                                       | —                              | 588,581                       | —                                 |
| <b>Cooperative</b>                          |                                  |  |  |   |                                |                               |                                   |
| Sales (thousand kWh) .....                  | 11,892                           | 52,770   | —  | —                                       | —                              | 66,892                        | —                                 |
| Revenue (dollars) .....                     | 623,323                          | 1,938,486  | —  | —                                       | —                              | 3,118,262                     | —                                 |
| Demand Charge Only <sup>1</sup> .....       | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Demand .....                                | 238,043                          | 1,679,499  | —  | —                                       | —                              | 1,712,312                     | —                                 |
| Energy .....                                | 385,280                          | 258,987  | —  | —                                       | —                              | 1,338,178                     | —                                 |
| Other <sup>2</sup> .....                    | —                                | —  | —  | —                                       | —                              | 67,772                        | —                                 |
| <b>Other<sup>3</sup></b>                    |                                  |  |  |   |                                |                               |                                   |
| Sales (thousand kWh) .....                  | 155,372                          | —  | —  | 5,003,487                               | —                              | 337,647                       | 1,520,902                         |
| Revenue (dollars) .....                     | 3,203,110                        | —  | —  | 98,825,669                              | —                              | 7,359,915                     | 58,386,920                        |
| Demand Charge Only <sup>1</sup> .....       | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| Demand .....                                | 83,686                           | —  | —  | —                                       | —                              | 1,308,296                     | 12,091,269                        |
| Energy .....                                | 3,119,424                        | —  | —  | 98,825,669                              | —                              | 6,051,619                     | 46,295,651                        |
| Other <sup>2</sup> .....                    | —                                | —  | —  | —                                       | —                              | —                             | —                                 |
| <b>Total</b>                                |                                  |  |  |   |                                |                               |                                   |
| Sales (thousand kWh) .....                  | 261,677                          | 5,054,038  | —  | 7,580,034                               | —                              | 2,254,493                     | 3,868,477                         |
| Revenue (dollars) .....                     | 6,454,225                        | 185,660,947  | 83,402,000                                       | 155,876,920                             | —                              | 95,646,213                    | 191,333,105                       |
| Demand Charge Only <sup>1</sup> .....       | —                                | —  | —  | —                                       | —                              | —                             | 15,000                            |
| Demand .....                                | 582,337                          | 160,856,121  | —  | —                                       | —                              | 22,398,883                    | 114,140,833                       |
| Energy .....                                | 5,807,925                        | 24,804,826   | —  | 155,876,920                             | —                              | 72,537,759                    | 77,177,272                        |
| Other <sup>2</sup> .....                    | 63,963                           | —  | 83,402,000                                       | —                                       | —                              | 709,571                       | —                                 |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Massachusetts<br>Cambridge Electric Light Co | Massachusetts<br>Canal Electric Co | Massachusetts<br>Commonwealth Electric Co | Massachusetts<br>Eastern Edison Co <sup>4</sup> | Massachusetts<br>Fitchburg Gas & Electric Lght Co | Massachusetts<br>Great Bay Power Co <sup>5</sup> | Massachusetts<br>Holyoke Power & Electric Co |
|---|--|------------------------------------|---|---|---|--|--|
| <b>Investor-Owned</b>                       |  |                                    |   |   |   |  |  |
| Sales (thousand kWh) .....                  | —  | 3,175,902                          | 16,715                                    | —   | —   | 433,884  | 956,642                                      |
| Revenue (dollars) .....                     | —  | 178,583,552                        | 420,575                                   | —   | —   | 12,798,893                                       | 27,129,065                                   |
| Demand Charge Only <sup>1</sup> .....       | —  | 8,279                              | —   | —   | —   | —  | —  |
| Demand .....                                | —  | 92,583,065                         | 29,215                                    | —   | —   | 10,840,201                                       | —  |
| Energy .....                                | —  | 84,664,284                         | 391,360                                   | —   | —   | 1,958,692  | 17,576,441                                   |
| Other <sup>2</sup> .....                    | —  | 1,327,924                          | —   | —   | —   | —  | 9,552,624                                    |
| <b>Federal</b>                              |  |                                    |   |   |   |  |  |
| Sales (thousand kWh) .....                  | —  | —                                  | —   | —   | —   | —  | —  |
| Revenue (dollars) .....                     | —  | —                                  | —   | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —  | —                                  | —   | —   | —   | —  | —  |
| Demand .....                                | —  | —                                  | —   | —   | —   | —  | —  |
| Energy .....                                | —  | —                                  | —   | —   | —   | —  | —  |
| Other <sup>2</sup> .....                    | —  | —                                  | —   | —   | —   | —  | —  |
| <b>State and Other</b>                      |  |                                    |   |   |   |  |  |
| <b>Government</b>                           |  |                                    |   |   |   |  |  |
| Sales (thousand kWh) .....                  | —  | —                                  | —   | —   | 72  | 6,065  | —  |
| Revenue (dollars) .....                     | —  | —                                  | —   | —   | 15,185  | 147,838  | —  |
| Demand Charge Only <sup>1</sup> .....       | —  | —                                  | —   | —   | —   | —  | —  |
| Demand .....                                | —  | —                                  | —   | —   | 10,834  | 120,458  | —  |
| Energy .....                                | —  | —                                  | —   | —   | 4,351   | 27,380   | —  |
| Other <sup>2</sup> .....                    | —  | —                                  | —   | —   | —   | —  | —  |
| <b>Municipal</b>                            |  |                                    |   |   |   |  |  |
| Sales (thousand kWh) .....                  | 99,450                                       | —                                  | —   | —   | —   | 204,006  | 2,583  |
| Revenue (dollars) .....                     | 5,950,403                                    | —                                  | —   | —   | —   | 4,785,215  | 113,870                                      |
| Demand Charge Only <sup>1</sup> .....       | —  | —                                  | —   | —   | —   | —  | —  |
| Demand .....                                | 3,987,324                                    | —                                  | —   | —   | —   | 3,864,269  | —  |
| Energy .....                                | 1,880,984                                    | —                                  | —   | —   | —   | 920,946  | 30   |
| Other <sup>2</sup> .....                    | 82,095                                       | —                                  | —   | —   | —   | —  | 113,840                                      |
| <b>Cooperative</b>                          |  |                                    |   |   |   |  |  |
| Sales (thousand kWh) .....                  | —  | —                                  | —   | —   | —   | —  | —  |
| Revenue (dollars) .....                     | —  | -19,113                            | —   | —   | —   | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —  | —                                  | —   | —   | —   | —  | —  |
| Demand .....                                | —  | —                                  | —   | —   | —   | —  | —  |
| Energy .....                                | —  | -19,113                            | —   | —   | —   | —  | —  |
| Other <sup>2</sup> .....                    | —  | —                                  | —   | —   | —   | —  | —  |
| <b>Other<sup>3</sup></b>                    |  |                                    |   |   |   |  |  |
| Sales (thousand kWh) .....                  | 113,216                                      | —                                  | 836,224                                   | —   | 18,890  | 550,436  | —  |
| Revenue (dollars) .....                     | 2,503,813                                    | —                                  | 17,729,682                                | —   | 810,708   | 12,537,678                                       | —  |
| Demand Charge Only <sup>1</sup> .....       | —  | —                                  | —   | —   | —   | —  | —  |
| Demand .....                                | —  | —                                  | 145,286                                   | —   | —   | 10,052,846                                       | —  |
| Energy .....                                | 2,436,257                                    | —                                  | 17,584,396                                | —   | 810,708   | 2,484,832  | —  |
| Other <sup>2</sup> .....                    | 67,556                                       | —                                  | —   | —   | —   | —  | —  |
| <b>Total</b>                                |  |                                    |   |   |   |  |  |
| Sales (thousand kWh) .....                  | 212,666                                      | 3,175,902                          | 852,939                                   | —   | 18,962  | 1,194,391  | 959,225                                      |
| Revenue (dollars) .....                     | 8,454,216                                    | 178,564,439                        | 18,150,257                                | —   | 825,893   | 30,269,624                                       | 27,242,935                                   |
| Demand Charge Only <sup>1</sup> .....       | —  | 8,279                              | —   | —   | —   | —  | —  |
| Demand .....                                | 3,987,324                                    | 92,583,065                         | 174,501                                   | —   | 10,834  | 24,877,774                                       | —  |
| Energy .....                                | 4,317,241                                    | 84,645,171                         | 17,975,756                                | —   | 815,059   | 5,391,850  | 17,576,471                                   |
| Other <sup>2</sup> .....                    | 149,651                                      | 1,327,924                          | —   | —   | —   | —  | 9,666,464                                    |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Massachusetts<br>Holyoke Water Power Co | Massachusetts<br>Massachusetts Electric Co | Massachusetts<br>Montaup Electric Co | Massachusetts<br>New England Hydro Trans Elec Co <sup>8</sup> | Massachusetts<br>New England Power Co | Massachusetts<br>Western Massachusetts Electric Co | Massachusetts<br>Yankee Atomic Electric Co <sup>8</sup> |
|---|---|--|--------------------------------------|---|---------------------------------------|--|---|
| <b>Investor-Owned</b>                       |   |  |                                      |   |                                       |  |   |
| Sales (thousand kWh) .....                  | 959,225                                 | 4,047                                      | 4,585,276                            | —   | 23,325,782                            | 199,727  | —   |
| Revenue (dollars) .....                     | 27,243,752                              | 334,879                                    | 312,500,990                          | —   | 1,487,734,018                         | 6,765,377  | 51,812,475  |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand .....                                | —                                       | 68,810                                     | 227,853,539                          | —   | 726,412,519                           | 4,513  | —   |
| Energy .....                                | 17,613,144                              | 159,776                                    | 84,711,024                           | —   | 481,253,855                           | 4,532,100  | 51,812,475  |
| Other <sup>2</sup> .....                    | 9,630,608                               | 106,293                                    | -63,573                              | —   | 280,067,644                           | 2,228,764  | —   |
| <b>Federal</b>                              |   |  |                                      |   |                                       |  |   |
| Sales (thousand kWh) .....                  | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Revenue (dollars) .....                     | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand .....                                | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Energy .....                                | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Other <sup>2</sup> .....                    | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| <b>State and Other</b>                      |   |  |                                      |   |                                       |  |   |
| <b>Government</b>                           |   |  |                                      |   |                                       |  |   |
| Sales (thousand kWh) .....                  | —                                       | —  | 225                                  | —   | 73,866                                | 8,488  | —   |
| Revenue (dollars) .....                     | 215                                     | —  | -6,030                               | —   | 1,699,255                             | 295,249  | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand .....                                | —                                       | —  | 675                                  | —   | —                                     | —  | —   |
| Energy .....                                | —                                       | —  | -6,705                               | —   | 1,458,518                             | 239,862  | —   |
| Other <sup>2</sup> .....                    | 215                                     | —  | —                                    | —   | 240,737                               | 55,387   | —   |
| <b>Municipal</b>                            |   |  |                                      |   |                                       |  |   |
| Sales (thousand kWh) .....                  | —                                       | 73   | 141,786                              | —   | 834,640                               | 59,667   | —   |
| Revenue (dollars) .....                     | —                                       | 7,685                                      | 8,684,297                            | —   | 45,949,236                            | 1,890,944  | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand .....                                | —                                       | —  | 5,177,431                            | —   | 14,266,580                            | —  | —   |
| Energy .....                                | —                                       | 5,903                                      | 3,525,302                            | —   | 18,677,104                            | 1,281,233  | —   |
| Other <sup>2</sup> .....                    | —                                       | 1,782                                      | -18,436                              | —   | 13,005,552                            | 609,711  | —   |
| <b>Cooperative</b>                          |   |  |                                      |   |                                       |  |   |
| Sales (thousand kWh) .....                  | —                                       | —  | —                                    | —   | 6,039                                 | 8,527  | —   |
| Revenue (dollars) .....                     | —                                       | —  | —                                    | —   | 399,404                               | 254,105  | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand .....                                | —                                       | —  | —                                    | —   | 196,663                               | —  | —   |
| Energy .....                                | —                                       | —  | —                                    | —   | 131,561                               | 175,430  | —   |
| Other <sup>2</sup> .....                    | —                                       | —  | —                                    | —   | 71,180                                | 78,675   | —   |
| <b>Other<sup>3</sup></b>                    |   |  |                                      |   |                                       |  |   |
| Sales (thousand kWh) .....                  | 1,113,708                               | 8,140                                      | 454,073                              | —   | 1,560,256                             | 590,655  | —   |
| Revenue (dollars) .....                     | 29,436,871                              | 839,616                                    | 10,416,051                           | —   | 55,926,867                            | 22,636,332   | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand .....                                | —                                       | 238,453                                    | 283,853                              | —   | 778,368                               | —  | —   |
| Energy .....                                | 15,636,310                              | 388,833                                    | 10,132,198                           | —   | 53,247,577                            | -14,955,524  | —   |
| Other <sup>2</sup> .....                    | 13,800,561                              | 212,330                                    | —                                    | —   | 1,900,922                             | 37,591,856   | —   |
| <b>Total</b>                                |   |  |                                      |   |                                       |  |   |
| Sales (thousand kWh) .....                  | 2,072,933                               | 12,260                                     | 5,181,360                            | —   | 25,800,583                            | 867,064  | —   |
| Revenue (dollars) .....                     | 56,680,838                              | 1,182,180                                  | 331,595,308                          | —   | 1,591,708,780                         | 31,842,007   | 51,812,475  |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —  | —                                    | —   | —                                     | —  | —   |
| Demand .....                                | —                                       | 307,263                                    | 233,315,498                          | —   | 741,654,130                           | 4,513  | —   |
| Energy .....                                | 33,249,454                              | 554,512                                    | 98,361,819                           | —   | 554,768,615                           | -8,726,899   | 51,812,475  |
| Other <sup>2</sup> .....                    | 23,431,384                              | 320,405                                    | -82,009                              | —   | 295,286,035                           | 40,564,393   | —   |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Michigan Consumers Power Co | Michigan Detroit Edison Co | Michigan Edison Sault Electric Co | Michigan Upper Peninsula Power Co | Michigan Wolverine Hydroelectric Corp <sup>5</sup> | Minnesota Minnesota Power & Light Co | Minnesota Northern States Power Co |
|---|-----------------------------|----------------------------|-----------------------------------|-----------------------------------|--|--------------------------------------|------------------------------------|
| <b>Investor-Owned</b>                       |                             |                            |                                   |                                   |  |                                      |                                    |
| Sales (thousand kWh).....                   | 1,607,152                   | 1,572,859                  | —                                 | 18,140                            | —  | 2,422,186                            | 8,459,588                          |
| Revenue (dollars).....                      | 40,338,496                  | 35,793,991                 | —                                 | 732,091                           | —  | 53,390,906                           | 224,795,495                        |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                                 | —                                 | —  | —                                    | —                                  |
| Demand.....                                 | 11,565,292                  | 9,788,943                  | —                                 | 320,441                           | —  | 18,233,198                           | 4,290,376                          |
| Energy.....                                 | 32,677,226                  | 26,005,144                 | —                                 | 454,765                           | —  | 36,461,860                           | 47,109,611                         |
| Other <sup>2</sup> .....                    | -3,904,022                  | -96                        | —                                 | -43,115                           | —  | -1,304,152                           | 173,395,508                        |
| <b>Federal</b>                              |                             |                            |                                   |                                   |  |                                      |                                    |
| Sales (thousand kWh).....                   | —                           | —                          | —                                 | —                                 | —  | 1,190                                | 30,803                             |
| Revenue (dollars).....                      | —                           | —                          | —                                 | —                                 | —  | 16,780                               | 379,858                            |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                                 | —                                 | —  | —                                    | —                                  |
| Demand.....                                 | —                           | —                          | —                                 | —                                 | —  | —                                    | —                                  |
| Energy.....                                 | —                           | —                          | —                                 | —                                 | —  | 16,780                               | 379,858                            |
| Other <sup>2</sup> .....                    | —                           | —                          | —                                 | —                                 | —  | —                                    | —                                  |
| <b>State and Other</b>                      |                             |                            |                                   |                                   |  |                                      |                                    |
| <b>Government</b>                           |                             |                            |                                   |                                   |  |                                      |                                    |
| Sales (thousand kWh).....                   | 165,728                     | 47,883                     | —                                 | —                                 | —  | 174,255                              | 93,935                             |
| Revenue (dollars).....                      | 4,139,887                   | 939,094                    | —                                 | —                                 | —  | 2,481,399                            | 2,350,271                          |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                                 | —                                 | —  | —                                    | —                                  |
| Demand.....                                 | 1,305,684                   | 38,682                     | —                                 | —                                 | —  | —                                    | —                                  |
| Energy.....                                 | 2,834,203                   | 844,308                    | —                                 | —                                 | —  | 2,481,399                            | 2,350,271                          |
| Other <sup>2</sup> .....                    | —                           | 56,104                     | —                                 | —                                 | —  | —                                    | —                                  |
| <b>Municipal</b>                            |                             |                            |                                   |                                   |  |                                      |                                    |
| Sales (thousand kWh).....                   | 458,812                     | 519,665                    | —                                 | 84,977                            | —  | 695,859                              | 906,494                            |
| Revenue (dollars).....                      | 15,987,089                  | 16,624,541                 | —                                 | 3,287,720                         | —  | 19,664,507                           | 22,852,632                         |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                                 | 53,760                            | —  | —                                    | —                                  |
| Demand.....                                 | 5,358,441                   | 5,871,417                  | —                                 | 1,160,945                         | —  | 10,580,857                           | 5,195,962                          |
| Energy.....                                 | 14,526,129                  | 13,094,850                 | —                                 | 2,229,206                         | —  | 9,883,590                            | 17,615,712                         |
| Other <sup>2</sup> .....                    | -3,897,481                  | -2,341,726                 | —                                 | -156,191                          | —  | -799,940                             | 40,958                             |
| <b>Cooperative</b>                          |                             |                            |                                   |                                   |  |                                      |                                    |
| Sales (thousand kWh).....                   | 71,005                      | 878,355                    | 166,818                           | 40,777                            | —  | 260,880                              | 185,798                            |
| Revenue (dollars).....                      | 2,610,720                   | 34,400,317                 | 4,392,384                         | 1,564,817                         | —  | 5,505,883                            | 3,254,654                          |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                                 | —                                 | —  | —                                    | —                                  |
| Demand.....                                 | 1,214,888                   | 17,675,150                 | 487,751                           | 471,081                           | —  | 73,000                               | 235,000                            |
| Energy.....                                 | 2,113,207                   | 20,014,593                 | 3,493,581                         | 1,116,325                         | —  | 5,432,883                            | 3,019,654                          |
| Other <sup>2</sup> .....                    | -717,375                    | -3,289,426                 | 411,052                           | -22,589                           | —  | —                                    | —                                  |
| <b>Other<sup>3</sup></b>                    |                             |                            |                                   |                                   |  |                                      |                                    |
| Sales (thousand kWh).....                   | 733,516                     | 106,352                    | —                                 | —                                 | —  | 294,162                              | 110,683                            |
| Revenue (dollars).....                      | 18,602,587                  | 1,692,277                  | —                                 | —                                 | —  | 4,356,399                            | 1,332,126                          |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                                 | —                                 | —  | —                                    | —                                  |
| Demand.....                                 | 3,958,269                   | 247,764                    | —                                 | —                                 | —  | 498,097                              | 62,400                             |
| Energy.....                                 | 13,810,788                  | 1,444,513                  | —                                 | —                                 | —  | 3,965,370                            | 1,269,726                          |
| Other <sup>2</sup> .....                    | 833,530                     | —                          | —                                 | —                                 | —  | -107,068                             | —                                  |
| <b>Total</b>                                |                             |                            |                                   |                                   |  |                                      |                                    |
| Sales (thousand kWh).....                   | 3,036,213                   | 3,125,114                  | 166,818                           | 143,894                           | —  | 3,848,532                            | 9,787,301                          |
| Revenue (dollars).....                      | 81,678,779                  | 89,450,220                 | 4,392,384                         | 5,584,628                         | —  | 85,415,874                           | 254,965,036                        |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                                 | 53,760                            | —  | —                                    | —                                  |
| Demand.....                                 | 23,402,574                  | 33,621,956                 | 487,751                           | 1,952,467                         | —  | 29,385,152                           | 9,783,738                          |
| Energy.....                                 | 65,961,553                  | 61,403,408                 | 3,493,581                         | 3,800,296                         | —  | 58,241,882                           | 71,744,832                         |
| Other <sup>2</sup> .....                    | -7,685,348                  | -5,575,144                 | 411,052                           | -221,895                          | —  | -2,211,160                           | 173,436,466                        |

See notes and footnotes at end of table.



**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Minnesota           | Mississippi                  | Mississippi          | Mississippi                               | Missouri                    | Missouri                     | Missouri                   |
|---|---------------------|------------------------------|----------------------|---|-----------------------------|------------------------------|----------------------------|
|   | Otter Tail Power Co | Mississippi Power & Light Co | Mississippi Power Co | Systems Energy Resources Inc <sup>5</sup> | Empire District Electric Co | Kansas City Power & Light Co | St Joseph Light & Power Co |
| <b>Investor-Owned</b>                       |                     |                              |                      |   |                             |                              |                            |
| Sales (thousand kWh) .....                  | 311,469             | —                            | 180,553              | 8,301,980                                 | 184,384                     | 2,146,068                    | 58,432                     |
| Revenue (dollars) .....                     | 5,050,739           | —                            | 3,291,403            | 671,537,092                               | 3,686,654                   | 35,791,876                   | 1,063,000                  |
| Demand Charge Only <sup>1</sup> .....       | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand .....                                | —                   | —                            | -12,318              | —   | 1,991,832                   | 66,008                       | —                          |
| Energy .....                                | 5,050,739           | —                            | 3,303,721            | 671,537,092                               | 1,667,972                   | 33,962,011                   | 1,063,000                  |
| Other <sup>2</sup> .....                    | —                   | —                            | —                    | —   | 26,850                      | 1,763,857                    | —                          |
| <b>Federal</b>                              |                     |                              |                      |   |                             |                              |                            |
| Sales (thousand kWh) .....                  | 10,017              | —                            | 6,441                | —   | —                           | —                            | —                          |
| Revenue (dollars) .....                     | 120,621             | —                            | 204,497              | —   | —                           | —                            | —                          |
| Demand Charge Only <sup>1</sup> .....       | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand .....                                | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Energy .....                                | 120,621             | —                            | 204,497              | —   | —                           | —                            | —                          |
| Other <sup>2</sup> .....                    | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| <b>State and Other</b>                      |                     |                              |                      |   |                             |                              |                            |
| <b>Government</b>                           |                     |                              |                      |   |                             |                              |                            |
| Sales (thousand kWh) .....                  | 143,128             | —                            | 890                  | —   | 18,707                      | 15,863                       | 2,355                      |
| Revenue (dollars) .....                     | 2,210,627           | —                            | 24,063               | —   | 389,606                     | 317,230                      | 47,077                     |
| Demand Charge Only <sup>1</sup> .....       | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand .....                                | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Energy .....                                | 2,210,627           | —                            | 24,063               | —   | 389,606                     | 317,230                      | 47,077                     |
| Other <sup>2</sup> .....                    | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| <b>Municipal</b>                            |                     |                              |                      |   |                             |                              |                            |
| Sales (thousand kWh) .....                  | 60,413              | —                            | 73,339               | —   | 247,695                     | 966,689                      | 700                        |
| Revenue (dollars) .....                     | 1,091,726           | 791,449                      | 2,064,995            | —   | 8,914,168                   | 22,947,561                   | 24,600                     |
| Demand Charge Only <sup>1</sup> .....       | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand .....                                | 104,720             | —                            | -1,569               | —   | 2,991,105                   | 1,318,650                    | —                          |
| Energy .....                                | 999,113             | —                            | 1,466,071            | —   | 5,923,063                   | 16,006,261                   | 24,600                     |
| Other <sup>2</sup> .....                    | -12,107             | 791,449                      | 600,493              | —   | —                           | 5,622,650                    | —                          |
| <b>Cooperative</b>                          |                     |                              |                      |   |                             |                              |                            |
| Sales (thousand kWh) .....                  | 82,546              | —                            | 2,433,956            | —   | 14,979                      | 617,134                      | 9,765                      |
| Revenue (dollars) .....                     | 1,311,120           | 6,686,728                    | 93,252,998           | —   | 580,417                     | 9,302,731                    | 179,156                    |
| Demand Charge Only <sup>1</sup> .....       | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand .....                                | —                   | —                            | 400,000              | —   | 310,253                     | 807,820                      | —                          |
| Energy .....                                | 1,311,120           | —                            | 53,152,124           | —   | 270,164                     | 8,494,911                    | 179,156                    |
| Other <sup>2</sup> .....                    | —                   | 6,686,728                    | 39,700,874           | —   | —                           | —                            | —                          |
| <b>Other<sup>3</sup></b>                    |                     |                              |                      |   |                             |                              |                            |
| Sales (thousand kWh) .....                  | 29,091              | 1,888,950                    | 732,907              | —   | 16,379                      | 426,277                      | 7,904                      |
| Revenue (dollars) .....                     | 452,992             | 81,562,940                   | 23,005,128           | —   | 505,347                     | 7,083,564                    | 133,067                    |
| Demand Charge Only <sup>1</sup> .....       | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand .....                                | —                   | 8,806,019                    | 3,744,502            | —   | —                           | —                            | —                          |
| Energy .....                                | 452,992             | 70,364,316                   | 19,260,626           | —   | 505,347                     | 7,083,564                    | 133,067                    |
| Other <sup>2</sup> .....                    | —                   | 2,392,605                    | —                    | —   | —                           | —                            | —                          |
| <b>Total</b>                                |                     |                              |                      |   |                             |                              |                            |
| Sales (thousand kWh) .....                  | 636,664             | 1,888,950                    | 3,428,086            | 8,301,980                                 | 482,144                     | 4,172,031                    | 79,156                     |
| Revenue (dollars) .....                     | 10,237,825          | 89,041,117                   | 121,843,084          | 671,537,092                               | 14,076,192                  | 75,442,962                   | 1,446,900                  |
| Demand Charge Only <sup>1</sup> .....       | —                   | —                            | —                    | —   | —                           | —                            | —                          |
| Demand .....                                | 104,720             | 8,806,019                    | 4,130,615            | —   | 5,293,190                   | 2,192,478                    | —                          |
| Energy .....                                | 10,145,212          | 70,364,316                   | 77,411,102           | 671,537,092                               | 8,756,152                   | 65,863,977                   | 1,446,900                  |
| Other <sup>2</sup> .....                    | -12,107             | 9,870,782                    | 40,301,367           | —   | 26,850                      | 7,386,507                    | —                          |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Missouri<br>Union Electric Co | Missouri<br>UtiliCorp United Inc | Montana<br>Montana Power Co | Nevada<br>Nevada Power Co | Nevada<br>Sierra Pacific Power Co | New Hampshire<br>Concord Electric Co <sup>4</sup> | New Hampshire<br>Connecticut Valley Electric Co <sup>4</sup> |
|---|-------------------------------|----------------------------------|-----------------------------|---------------------------|-----------------------------------|---|--|
| <b>Investor-Owned</b>                       |                               |                                  |                             |                           |                                   |   |  |
| Sales (thousand kWh).....                   | 2,727,860                     | 312,873                          | 1,893,912                   | 67,658                    | 91,368                            | —   | —  |
| Revenue (dollars).....                      | 73,500,260                    | 7,328,650                        | 48,910,501                  | 1,343,595                 | 1,816,623                         | —   | —  |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                | 111,388                     | —                         | —                                 | —   | —  |
| Demand.....                                 | 21,776,522                    | 727,000                          | 25,539,048                  | —                         | 144,726                           | —   | —  |
| Energy.....                                 | 51,723,738                    | 6,288,609                        | 23,225,594                  | 1,343,595                 | 1,659,520                         | —   | —  |
| Other <sup>2</sup> .....                    | —                             | 313,041                          | 34,471                      | —                         | 12,377                            | —   | —  |
| <b>Federal</b>                              |                               |                                  |                             |                           |                                   |   |  |
| Sales (thousand kWh).....                   | 102,983                       | 43,685                           | 444,459                     | 700                       | 43,420                            | —   | —  |
| Revenue (dollars).....                      | 1,731,445                     | 857,930                          | 8,398,722                   | 23,370                    | 1,526,199                         | —   | —  |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                | —                           | —                         | —                                 | —   | —  |
| Demand.....                                 | —                             | —                                | —                           | —                         | 501,671                           | —   | —  |
| Energy.....                                 | 1,731,445                     | 820,676                          | 8,398,722                   | 23,370                    | 1,079,115                         | —   | —  |
| Other <sup>2</sup> .....                    | —                             | 37,254                           | —                           | —                         | -54,587                           | —   | —  |
| <b>State and Other</b>                      |                               |                                  |                             |                           |                                   |   |  |
| <b>Government</b>                           |                               |                                  |                             |                           |                                   |   |  |
| Sales (thousand kWh).....                   | —                             | 15,768                           | 7,470                       | 341,830                   | 104,860                           | —   | —  |
| Revenue (dollars).....                      | —                             | 376,775                          | 87,150                      | 6,509,604                 | 4,873,690                         | —   | —  |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                | —                           | —                         | —                                 | —   | —  |
| Demand.....                                 | —                             | —                                | —                           | 775,079                   | 2,023,843                         | —   | —  |
| Energy.....                                 | —                             | 358,107                          | 87,150                      | 5,825,423                 | 2,834,883                         | —   | —  |
| Other <sup>2</sup> .....                    | —                             | 18,668                           | —                           | -90,898                   | 14,964                            | —   | —  |
| <b>Municipal</b>                            |                               |                                  |                             |                           |                                   |   |  |
| Sales (thousand kWh).....                   | 1,536,117                     | 425,780                          | 620,814                     | 71,378                    | 382,405                           | —   | —  |
| Revenue (dollars).....                      | 51,780,919                    | 14,749,538                       | 37,235,600                  | 2,393,609                 | 5,987,221                         | —   | —  |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                | —                           | —                         | —                                 | —   | —  |
| Demand.....                                 | 3,088,032                     | 5,283,080                        | 22,287,475                  | 1,045,025                 | 1,085,892                         | —   | —  |
| Energy.....                                 | 48,692,887                    | 10,670,152                       | 14,948,125                  | 1,375,429                 | 5,518,960                         | —   | —  |
| Other <sup>2</sup> .....                    | —                             | -1,203,694                       | —                           | -26,845                   | -617,631                          | —   | —  |
| <b>Cooperative</b>                          |                               |                                  |                             |                           |                                   |   |  |
| Sales (thousand kWh).....                   | 832,957                       | 316,172                          | 493,015                     | 118,678                   | 150,788                           | —   | —  |
| Revenue (dollars).....                      | 28,278,455                    | 8,850,740                        | 18,102,256                  | 4,435,439                 | 1,508,250                         | —   | —  |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                | —                           | —                         | —                                 | —   | —  |
| Demand.....                                 | 31,101                        | 2,651,468                        | 4,977,555                   | 1,295,239                 | —                                 | —   | —  |
| Energy.....                                 | 28,247,354                    | 6,079,804                        | 13,124,701                  | 3,406,966                 | 1,508,163                         | —   | —  |
| Other <sup>2</sup> .....                    | —                             | 119,468                          | —                           | -266,766                  | 87                                | —   | —  |
| <b>Other<sup>3</sup></b>                    |                               |                                  |                             |                           |                                   |   |  |
| Sales (thousand kWh).....                   | 3,594,462                     | 344,475                          | 529,430                     | 74,814                    | 50,191                            | —   | —  |
| Revenue (dollars).....                      | 61,213,871                    | 6,719,136                        | 7,376,104                   | 1,490,287                 | 886,108                           | —   | —  |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                | 171,261                     | —                         | —                                 | —   | —  |
| Demand.....                                 | 30,000                        | 176,400                          | —                           | —                         | —                                 | —   | —  |
| Energy.....                                 | 61,183,871                    | 6,073,275                        | 6,970,459                   | 1,026,638                 | 886,108                           | —   | —  |
| Other <sup>2</sup> .....                    | —                             | 469,461                          | 234,384                     | 463,649                   | —                                 | —   | —  |
| <b>Total</b>                                |                               |                                  |                             |                           |                                   |   |  |
| Sales (thousand kWh).....                   | 8,794,379                     | 1,458,753                        | 3,989,100                   | 675,058                   | 823,032                           | —   | —  |
| Revenue (dollars).....                      | 216,504,950                   | 38,882,769                       | 120,110,333                 | 16,195,904                | 16,598,091                        | —   | —  |
| Demand Charge Only <sup>1</sup> .....       | —                             | —                                | 282,649                     | —                         | —                                 | —   | —  |
| Demand.....                                 | 24,925,655                    | 8,837,948                        | 52,804,078                  | 3,115,343                 | 3,756,132                         | —   | —  |
| Energy.....                                 | 191,579,295                   | 30,290,623                       | 66,754,751                  | 13,001,421                | 13,486,749                        | —   | —  |
| Other <sup>2</sup> .....                    | —                             | -245,802                         | 268,855                     | 79,140                    | -644,790                          | —   | —  |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | New Hampshire<br>Exeter & Hampton Electric Co <sup>4</sup> | New Hampshire<br>Granite State Electric Co <sup>4</sup> | New Hampshire<br>New England Trans Corp <sup>8</sup> | New Hampshire<br>New England Hydro-Trans Corp <sup>8</sup> | New Hampshire<br>North Atlantic Energy Corp <sup>5</sup> | New Hampshire<br>Public Service Co of NH | New Hampshire<br>Unitil Power Corp |
|---|--|---|--|--|--|--|------------------------------------|
| <b>Investor-Owned</b>                       |  |   |  |  |  |  |                                    |
| Sales (thousand kWh) .....                  | —  | —   | —  | —  | 3,542,137  | 987,084                                  | —                                  |
| Revenue (dollars) .....                     | —  | —   | —  | —  | 159,548,793  | 40,557,131                               | —                                  |
| Demand Charge Only <sup>1</sup> .....       | —  | —   | —  | —  | —  | —  | —                                  |
| Demand .....                                | —  | —   | —  | —  | —  | 67,230                                   | —                                  |
| Energy .....                                | —  | —   | —  | —  | 15,013,395   | 19,216,469                               | —                                  |
| Other <sup>2</sup> .....                    | —  | —   | —  | —  | 144,535,398  | 21,273,432                               | —                                  |
| <b>Federal</b>                              |  |   |  |  |  |  |                                    |
| Sales (thousand kWh) .....                  | —  | —   | —  | —  | —  | —  | —                                  |
| Revenue (dollars) .....                     | —  | —   | —  | —  | —  | —  | —                                  |
| Demand Charge Only <sup>1</sup> .....       | —  | —   | —  | —  | —  | —  | —                                  |
| Demand .....                                | —  | —   | —  | —  | —  | —  | —                                  |
| Energy .....                                | —  | —   | —  | —  | —  | —  | —                                  |
| Other <sup>2</sup> .....                    | —  | —   | —  | —  | —  | —  | —                                  |
| <b>State and Other</b>                      |  |   |  |  |  |  |                                    |
| <b>Government</b>                           |  |   |  |  |  |  |                                    |
| Sales (thousand kWh) .....                  | —  | —   | —  | —  | —  | 14,924                                   | —                                  |
| Revenue (dollars) .....                     | —  | —   | —  | —  | —  | 458,855                                  | —                                  |
| Demand Charge Only <sup>1</sup> .....       | —  | —   | —  | —  | —  | —  | —                                  |
| Demand .....                                | —  | —   | —  | —  | —  | —  | —                                  |
| Energy .....                                | —  | —   | —  | —  | —  | 396,224                                  | —                                  |
| Other <sup>2</sup> .....                    | —  | —   | —  | —  | —  | 62,631                                   | —                                  |
| <b>Municipal</b>                            |  |   |  |  |  |  |                                    |
| Sales (thousand kWh) .....                  | —  | —   | —  | —  | —  | 217,194                                  | —                                  |
| Revenue (dollars) .....                     | —  | —   | —  | —  | —  | 10,862,009                               | —                                  |
| Demand Charge Only <sup>1</sup> .....       | —  | —   | —  | —  | —  | —  | —                                  |
| Demand .....                                | —  | —   | —  | —  | —  | 1,972,383                                | —                                  |
| Energy .....                                | —  | —   | —  | —  | —  | 7,998,180                                | —                                  |
| Other <sup>2</sup> .....                    | —  | —   | —  | —  | —  | 891,446                                  | —                                  |
| <b>Cooperative</b>                          |  |   |  |  |  |  |                                    |
| Sales (thousand kWh) .....                  | —  | —   | —  | —  | —  | 596,470                                  | —                                  |
| Revenue (dollars) .....                     | —  | —   | —  | —  | —  | 47,904,760                               | —                                  |
| Demand Charge Only <sup>1</sup> .....       | —  | —   | —  | —  | —  | —  | —                                  |
| Demand .....                                | —  | —   | —  | —  | —  | 16,011,028                               | —                                  |
| Energy .....                                | —  | —   | —  | —  | —  | 34,106,728                               | —                                  |
| Other <sup>2</sup> .....                    | —  | —   | —  | —  | —  | -2,212,996                               | —                                  |
| <b>Other<sup>3</sup></b>                    |  |   |  |  |  |  |                                    |
| Sales (thousand kWh) .....                  | —  | —   | —  | —  | —  | 5,319,320                                | —                                  |
| Revenue (dollars) .....                     | —  | —   | —  | —  | —  | 201,693,051                              | —                                  |
| Demand Charge Only <sup>1</sup> .....       | —  | —   | —  | —  | —  | —  | —                                  |
| Demand .....                                | —  | —   | —  | —  | —  | —  | —                                  |
| Energy .....                                | —  | —   | —  | —  | —  | 201,511,696                              | —                                  |
| Other <sup>2</sup> .....                    | —  | —   | —  | —  | —  | 181,355                                  | —                                  |
| <b>Total</b>                                |  |   |  |  |  |  |                                    |
| Sales (thousand kWh) .....                  | —  | —   | —  | —  | 3,542,137  | 7,134,992                                | —                                  |
| Revenue (dollars) .....                     | —  | —   | —  | —  | 159,548,793  | 301,475,806                              | —                                  |
| Demand Charge Only <sup>1</sup> .....       | —  | —   | —  | —  | —  | —  | —                                  |
| Demand .....                                | —  | —   | —  | —  | —  | 18,050,641                               | —                                  |
| Energy .....                                | —  | —   | —  | —  | 15,013,395   | 263,229,297                              | —                                  |
| Other <sup>2</sup> .....                    | —  | —   | —  | —  | 144,535,398  | 20,195,868                               | —                                  |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | New Jersey<br>Atlantic City Electric Co | New Jersey<br>Jersey Central Power & Light Co | New Jersey<br>Public Service Electric & Gas Co | New Jersey<br>Rockland Electric Co <sup>4</sup> | New Mexico<br>Public Service Co of NM | New Mexico<br>Texas-New Mexico Power Co <sup>4</sup> | New York<br>Central Hudson Gas & Electric Corp |
|---|---|---|--|---|---------------------------------------|--|--|
| <b>Investor-Owned</b>                       |   |   |  |   |                                       |  |  |
| Sales (thousand kWh) .....                  | 208,961                                 | 5,382   | —  | —   | 3,095,674                             | —  | 84,208   |
| Revenue (dollars) .....                     | 5,802,405                               | 369,508                                       | —  | —   | 79,928,634                            | —  | 2,519,628                                      |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —   | —  | —   | —                                     | —  | —  |
| Demand .....                                | —                                       | —   | —  | —   | 29,134,781                            | —  | 22,885   |
| Energy .....                                | 5,658,760                               | 369,508                                       | —  | —   | 50,555,126                            | —  | 2,496,743                                      |
| Other <sup>2</sup> .....                    | 143,645                                 | —   | —  | —   | 238,727                               | —  | —  |
| <b>Federal</b>                              |   |   |  |   |                                       |  |  |
| Sales (thousand kWh) .....                  | —                                       | —   | —  | —   | 15,755                                | —  | —  |
| Revenue (dollars) .....                     | —                                       | —   | —  | —   | 424,273                               | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —   | —  | —   | —                                     | —  | —  |
| Demand .....                                | —                                       | —   | —  | —   | —                                     | —  | —  |
| Energy .....                                | —                                       | —   | —  | —   | 424,273                               | —  | —  |
| Other <sup>2</sup> .....                    | —                                       | —   | —  | —   | —                                     | —  | —  |
| <b>State and Other</b>                      |   |   |  |   |                                       |  |  |
| <b>Government</b>                           |   |   |  |   |                                       |  |  |
| Sales (thousand kWh) .....                  | —                                       | —   | —  | —   | 98,707                                | —  | 200  |
| Revenue (dollars) .....                     | —                                       | —   | —  | —   | 1,097,611                             | —  | 15,309   |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —   | —  | —   | —                                     | —  | —  |
| Demand .....                                | —                                       | —   | —  | —   | —                                     | —  | 9,509  |
| Energy .....                                | —                                       | —   | —  | —   | 1,097,501                             | —  | 5,800  |
| Other <sup>2</sup> .....                    | —                                       | —   | —  | —   | 110                                   | —  | —  |
| <b>Municipal</b>                            |   |   |  |   |                                       |  |  |
| Sales (thousand kWh) .....                  | 291,031                                 | —   | —  | —   | 272,731                               | —  | —  |
| Revenue (dollars) .....                     | 6,769,936                               | —   | —  | —   | 9,915,731                             | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —   | —  | —   | —                                     | —  | —  |
| Demand .....                                | —                                       | —   | —  | —   | 5,855,325                             | —  | —  |
| Energy .....                                | 6,713,291                               | —   | —  | —   | 3,276,005                             | —  | —  |
| Other <sup>2</sup> .....                    | 56,645                                  | —   | —  | —   | 784,401                               | —  | —  |
| <b>Cooperative</b>                          |   |   |  |   |                                       |  |  |
| Sales (thousand kWh) .....                  | —                                       | —   | —  | —   | 145,698                               | —  | —  |
| Revenue (dollars) .....                     | —                                       | 690   | —  | —   | 2,271,582                             | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —   | —  | —   | —                                     | —  | —  |
| Demand .....                                | —                                       | —   | —  | —   | —                                     | —  | —  |
| Energy .....                                | —                                       | 690   | —  | —   | 2,260,406                             | —  | —  |
| Other <sup>2</sup> .....                    | —                                       | —   | —  | —   | 11,176                                | —  | —  |
| <b>Other<sup>3</sup></b>                    |   |   |  |   |                                       |  |  |
| Sales (thousand kWh) .....                  | 1,317,991                               | 998,250                                       | 2,806,056                                      | —   | 946,655                               | —  | 474,442  |
| Revenue (dollars) .....                     | 35,886,561                              | 34,873,783                                    | 79,684,467                                     | —   | 27,691,046                            | —  | 12,363,679                                     |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —   | —  | —   | —                                     | —  | —  |
| Demand .....                                | —                                       | 1,863,421                                     | 14,602,981                                     | —   | 11,810,291                            | —  | —  |
| Energy .....                                | 34,775,508                              | 33,010,362                                    | 53,101,338                                     | —   | 15,880,755                            | —  | 12,363,679                                     |
| Other <sup>2</sup> .....                    | 1,111,053                               | —   | 11,980,148                                     | —   | —                                     | —  | —  |
| <b>Total</b>                                |   |   |  |   |                                       |  |  |
| Sales (thousand kWh) .....                  | 1,817,983                               | 1,003,632                                     | 2,806,056                                      | —   | 4,575,220                             | —  | 558,850  |
| Revenue (dollars) .....                     | 48,458,902                              | 35,243,981                                    | 79,684,467                                     | —   | 121,328,877                           | —  | 14,898,616                                     |
| Demand Charge Only <sup>1</sup> .....       | —                                       | —   | —  | —   | —                                     | —  | —  |
| Demand .....                                | —                                       | 1,863,421                                     | 14,602,981                                     | —   | 46,800,397                            | —  | 32,394   |
| Energy .....                                | 47,147,559                              | 33,380,560                                    | 53,101,338                                     | —   | 73,494,066                            | —  | 14,866,222                                     |
| Other <sup>2</sup> .....                    | 1,311,343                               | —   | 11,980,148                                     | —   | 1,034,414                             | —  | —  |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | New York<br>Consolidated Edison Co-NY Inc | New York<br>Long Island Lighting Co | New York<br>Long Sault Inc <sup>6</sup> | New York<br>New York State Electric & Gas Corp | New York<br>Niagara Mohawk Power Corp | New York<br>Orange & Rockland Utilities Inc | New York<br>Rochester Gas & Electric Corp |
|---|---|-------------------------------------|---|--|---------------------------------------|---|---|
| <b>Investor-Owned</b>                       |   |                                     |   |  |                                       |   |   |
| Sales (thousand kWh) .....                  | 627,379                                   | 52,847                              | —                                       | —  | 709,468                               | 1,493,477                                   | 279,500                                   |
| Revenue (dollars) .....                     | 14,049,814                                | 2,102,934                           | —                                       | —  | 17,934,127                            | 71,469,282                                  | 5,645,227                                 |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand .....                                | 2,350                                     | —                                   | —                                       | —  | 90,225                                | 23,250,938                                  | 142,746                                   |
| Energy .....                                | 14,045,259                                | 2,102,934                           | —                                       | —  | 17,843,902                            | 48,217,684                                  | 5,502,481                                 |
| Other <sup>2</sup> .....                    | 2,205                                     | —                                   | —                                       | —  | —                                     | 660   | —   |
| <b>Federal</b>                              |   |                                     |   |  |                                       |   |   |
| Sales (thousand kWh) .....                  | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Revenue (dollars) .....                     | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand .....                                | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Energy .....                                | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Other <sup>2</sup> .....                    | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| <b>State and Other</b>                      |   |                                     |   |  |                                       |   |   |
| <b>Government</b>                           |   |                                     |   |  |                                       |   |   |
| Sales (thousand kWh) .....                  | 2,375                                     | —                                   | —                                       | —  | 301,763                               | —   | 184,646                                   |
| Revenue (dollars) .....                     | 270,870                                   | —                                   | —                                       | —  | 5,492,676                             | —   | 3,425,485                                 |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand .....                                | —   | —                                   | —                                       | —  | 269,951                               | —   | 27,710                                    |
| Energy .....                                | 57,050                                    | —                                   | —                                       | —  | 5,222,725                             | —   | 3,397,775                                 |
| Other <sup>2</sup> .....                    | 213,820                                   | —                                   | —                                       | —  | —                                     | —   | —   |
| <b>Municipal</b>                            |   |                                     |   |  |                                       |   |   |
| Sales (thousand kWh) .....                  | —   | 13,377                              | —                                       | —  | 51,876                                | —   | —   |
| Revenue (dollars) .....                     | —   | 505,542                             | —                                       | —  | 1,648,241                             | —   | —   |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                   | —                                       | —  | 446,400                               | —   | —   |
| Demand .....                                | —   | —                                   | —                                       | —  | 154,098                               | —   | —   |
| Energy .....                                | —   | 505,542                             | —                                       | —  | 1,047,743                             | —   | —   |
| Other <sup>2</sup> .....                    | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| <b>Cooperative</b>                          |   |                                     |   |  |                                       |   |   |
| Sales (thousand kWh) .....                  | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Revenue (dollars) .....                     | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand .....                                | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Energy .....                                | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Other <sup>2</sup> .....                    | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| <b>Other<sup>3</sup></b>                    |   |                                     |   |  |                                       |   |   |
| Sales (thousand kWh) .....                  | 3,287,600                                 | 461,136                             | —                                       | 7,913,461                                      | 4,368,171                             | 153,039                                     | 511,597                                   |
| Revenue (dollars) .....                     | 42,376,602                                | 18,318,343                          | —                                       | 162,232,579                                    | 88,316,126                            | 2,987,483                                   | 7,701,342                                 |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                   | —                                       | —  | —                                     | —   | —   |
| Demand .....                                | 206,818                                   | —                                   | —                                       | 50,149   | 1,128,270                             | —   | 100,073                                   |
| Energy .....                                | 42,150,202                                | 18,318,343                          | —                                       | 162,182,430                                    | 87,187,856                            | 2,904,947                                   | 7,601,269                                 |
| Other <sup>2</sup> .....                    | 19,582                                    | —                                   | —                                       | —  | —                                     | 82,536                                      | —   |
| <b>Total</b>                                |   |                                     |   |  |                                       |   |   |
| Sales (thousand kWh) .....                  | 3,917,354                                 | 527,360                             | —                                       | 7,913,461                                      | 5,431,278                             | 1,646,516                                   | 975,743                                   |
| Revenue (dollars) .....                     | 56,697,286                                | 20,926,819                          | —                                       | 162,232,579                                    | 113,391,170                           | 74,456,765                                  | 16,772,054                                |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                   | —                                       | —  | 446,400                               | —   | —   |
| Demand .....                                | 209,168                                   | —                                   | —                                       | 50,149   | 1,642,544                             | 23,250,938                                  | 270,529                                   |
| Energy .....                                | 56,252,511                                | 20,926,819                          | —                                       | 162,182,430                                    | 111,302,226                           | 51,122,631                                  | 16,501,525                                |
| Other <sup>2</sup> .....                    | 235,607                                   | —                                   | —                                       | —  | —                                     | 83,196                                      | —   |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | North Carolina<br>Carolina Power & Light Co | North Carolina<br>Cascade Power Company <sup>5</sup> | North Carolina<br>Duke Power Co | North Carolina<br>Nantahala Power & Light Co | North Carolina<br>Yadkin Inc <sup>4</sup> | North Dakota<br>MDU Resources Group Inc | Ohio<br>AEP Generating Co |
|---|---|--|---------------------------------|--|---|---|---------------------------|
| <b>Investor-Owned</b>                       |   |  |                                 |  |   |   |                           |
| Sales (thousand kWh).....                   | 3,557,251                                   | —  | 1,956,314                       | 298,005                                      | —   | 266,855                                 | 8,466,054                 |
| Revenue (dollars).....                      | 69,523,702                                  | —  | 108,933,207                     | 5,253,789                                    | —   | 4,361,701                               | 225,767,206               |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                               | —  | —   | —                                       | —                         |
| Demand.....                                 | 302,462                                     | —  | 61,808,568                      | —  | —   | —                                       | 40,413,072                |
| Energy.....                                 | 69,324,461                                  | —  | 48,278,355                      | 5,253,789                                    | —   | 4,361,701                               | 185,354,134               |
| Other <sup>2</sup> .....                    | -103,221                                    | —  | -1,153,716                      | —  | —   | —                                       | —                         |
| <b>Federal</b>                              |   |  |                                 |  |   |   |                           |
| Sales (thousand kWh).....                   | 182,074                                     | —  | —                               | 90,893                                       | —   | 6,025                                   | —                         |
| Revenue (dollars).....                      | 3,895,579                                   | —  | —                               | 2,228,359                                    | —   | 69,151                                  | —                         |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                               | —  | —   | —                                       | —                         |
| Demand.....                                 | 70,000                                      | —  | —                               | —  | —   | —                                       | —                         |
| Energy.....                                 | 3,825,579                                   | —  | —                               | 2,223,359                                    | —   | 69,151                                  | —                         |
| Other <sup>2</sup> .....                    | —   | —  | —                               | 5,000  | —   | —                                       | —                         |
| <b>State and Other</b>                      |   |  |                                 |  |   |   |                           |
| <b>Government</b>                           |   |  |                                 |  |   |   |                           |
| Sales (thousand kWh).....                   | 38,166                                      | —  | 43,286                          | —  | —   | 29,203                                  | —                         |
| Revenue (dollars).....                      | 961,648                                     | —  | 1,193,738                       | —  | —   | 493,429                                 | —                         |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                               | —  | —   | —                                       | —                         |
| Demand.....                                 | —   | —  | —                               | —  | —   | —                                       | —                         |
| Energy.....                                 | 961,648                                     | —  | 1,193,738                       | —  | —   | 493,429                                 | —                         |
| Other <sup>2</sup> .....                    | —   | —  | —                               | —  | —   | —                                       | —                         |
| <b>Municipal</b>                            |   |  |                                 |  |   |   |                           |
| Sales (thousand kWh).....                   | 4,684,254                                   | —  | 2,349,542                       | 34,698                                       | —   | 13,606                                  | —                         |
| Revenue (dollars).....                      | 184,757,783                                 | —  | 113,100,458                     | 1,357,051                                    | —   | 210,339                                 | —                         |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                               | —  | —   | —                                       | —                         |
| Demand.....                                 | 52,326,581                                  | —  | 50,635,074                      | 966,607                                      | —   | —                                       | —                         |
| Energy.....                                 | 142,067,002                                 | —  | 67,454,570                      | 341,059                                      | —   | 210,339                                 | —                         |
| Other <sup>2</sup> .....                    | -9,635,800                                  | —  | -4,989,186                      | 49,385                                       | —   | —                                       | —                         |
| <b>Cooperative</b>                          |   |  |                                 |  |   |   |                           |
| Sales (thousand kWh).....                   | 4,875,491                                   | —  | 1,757,632                       | 22,722                                       | —   | 58,816                                  | —                         |
| Revenue (dollars).....                      | 280,467,456                                 | —  | 115,592,310                     | 888,010                                      | —   | 1,118,156                               | —                         |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | 25,000                          | —  | —   | —                                       | —                         |
| Demand.....                                 | 170,667,404                                 | —  | 91,977,678                      | 636,045                                      | —   | —                                       | —                         |
| Energy.....                                 | 111,153,835                                 | —  | 23,589,632                      | 216,187                                      | —   | 1,118,156                               | —                         |
| Other <sup>2</sup> .....                    | -1,353,783                                  | —  | —                               | 35,778                                       | —   | —                                       | —                         |
| <b>Other<sup>3</sup></b>                    |   |  |                                 |  |   |   |                           |
| Sales (thousand kWh).....                   | 46,080                                      | —  | 720,592                         | 28,625                                       | —   | 30                                      | —                         |
| Revenue (dollars).....                      | -12,546,180                                 | —  | 21,964,486                      | 1,147,360                                    | —   | 755                                     | —                         |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                               | —  | —   | —                                       | —                         |
| Demand.....                                 | —   | —  | 1,200,000                       | 792,077                                      | —   | —                                       | —                         |
| Energy.....                                 | 11,813,374                                  | —  | 18,223,100                      | 281,632                                      | —   | 755                                     | —                         |
| Other <sup>2</sup> .....                    | -24,359,554                                 | —  | 2,541,386                       | 73,651                                       | —   | —                                       | —                         |
| <b>Total</b>                                |   |  |                                 |  |   |   |                           |
| Sales (thousand kWh).....                   | 13,383,316                                  | —  | 6,827,366                       | 474,943                                      | —   | 374,535                                 | 8,466,054                 |
| Revenue (dollars).....                      | 527,059,988                                 | —  | 360,784,199                     | 10,874,569                                   | —   | 6,253,531                               | 225,767,206               |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | 25,000                          | —  | —   | —                                       | —                         |
| Demand.....                                 | 223,366,447                                 | —  | 205,621,320                     | 2,394,729                                    | —   | —                                       | 40,413,072                |
| Energy.....                                 | 339,145,899                                 | —  | 158,739,395                     | 8,316,026                                    | —   | 6,253,531                               | 185,354,134               |
| Other <sup>2</sup> .....                    | -35,452,358                                 | —  | -3,601,516                      | 163,814                                      | —   | —                                       | —                         |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Ohio<br>Cincinnati Gas & Electric Co | Ohio<br>Cleveland Electric Illuminating Co | Ohio<br>Columbus Southern Power Co | Ohio<br>Dayton Power & Light Co | Ohio<br>Indiana-Kentucky Electric Corp <sup>5</sup> | Ohio<br>Ohio Edison Co | Ohio<br>Ohio Power Co |
|---|--------------------------------------|--|------------------------------------|---------------------------------|---|------------------------|-----------------------|
| <b>Investor-Owned</b>                       |                                      |  |                                    |                                 |   |                        |                       |
| Sales (thousand kWh) .....                  | 7,833,780                            | 755,217                                    | 1,245,426                          | 577,739                         | 9,682,683   | 4,424,140              | 4,589,479             |
| Revenue (dollars) .....                     | 220,714,907                          | 12,435,645                                 | 33,092,963                         | 12,277,753                      | 158,983,092   | 165,604,726            | 128,573,042           |
| Demand Charge Only <sup>1</sup> .....       | 126,250                              | —  | 47,285                             | —                               | —   | —                      | 78,963                |
| Demand .....                                | 72,333,941                           | 1,890                                      | 2,663,359                          | 5,000                           | 41,737,040  | 94,441,578             | 5,117,180             |
| Energy .....                                | 172,311,112                          | 12,433,755                                 | 23,302,972                         | 12,170,751                      | 117,246,052   | 68,519,807             | 111,562,772           |
| Other <sup>2</sup> .....                    | -24,056,396                          | —  | 7,079,347                          | 102,002                         | —   | 2,643,341              | 11,814,127            |
| <b>Federal</b>                              |                                      |  |                                    |                                 |   |                        |                       |
| Sales (thousand kWh) .....                  | 76,115                               | —  | 91,629                             | —                               | —   | —                      | 152,442               |
| Revenue (dollars) .....                     | 1,524,928                            | —  | 2,637,916                          | —                               | —   | —                      | 4,401,022             |
| Demand Charge Only <sup>1</sup> .....       | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Demand .....                                | 9,213                                | —  | —                                  | —                               | —   | —                      | —                     |
| Energy .....                                | 1,515,715                            | —  | 2,333,422                          | —                               | —   | —                      | 3,893,056             |
| Other <sup>2</sup> .....                    | —                                    | —  | 304,494                            | —                               | —   | —                      | 507,966               |
| <b>State and Other</b>                      |                                      |  |                                    |                                 |   |                        |                       |
| <b>Government</b>                           |                                      |  |                                    |                                 |   |                        |                       |
| Sales (thousand kWh) .....                  | —                                    | —  | 60,790                             | 36,471                          | —   | —                      | 104,476               |
| Revenue (dollars) .....                     | —                                    | —  | 1,360,067                          | 579,958                         | —   | —                      | 2,267,335             |
| Demand Charge Only <sup>1</sup> .....       | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Demand .....                                | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Energy .....                                | —                                    | —  | 1,187,454                          | 579,958                         | —   | —                      | 1,979,577             |
| Other <sup>2</sup> .....                    | —                                    | —  | 172,613                            | —                               | —   | —                      | 287,758               |
| <b>Municipal</b>                            |                                      |  |                                    |                                 |   |                        |                       |
| Sales (thousand kWh) .....                  | 838,725                              | 23,522                                     | 683,344                            | 780,222                         | —   | 154,725                | 1,173,336             |
| Revenue (dollars) .....                     | 23,562,799                           | 561,889                                    | 21,395,308                         | 17,755,253                      | —   | 5,137,794              | 34,737,431            |
| Demand Charge Only <sup>1</sup> .....       | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Demand .....                                | 5,392,157                            | 713,731                                    | 6,958,996                          | 4,811,204                       | —   | 1,845,611              | 13,098,665            |
| Energy .....                                | 19,624,733                           | -294,172                                   | 13,676,041                         | 9,575,212                       | —   | 3,143,023              | 20,371,026            |
| Other <sup>2</sup> .....                    | -1,454,091                           | 142,330                                    | 760,271                            | 3,368,837                       | —   | 149,160                | 1,267,740             |
| <b>Cooperative</b>                          |                                      |  |                                    |                                 |   |                        |                       |
| Sales (thousand kWh) .....                  | 176,150                              | —  | 294,651                            | —                               | —   | —                      | 1,172,069             |
| Revenue (dollars) .....                     | 3,638,137                            | —  | 7,127,306                          | —                               | —   | —                      | 24,483,754            |
| Demand Charge Only <sup>1</sup> .....       | —                                    | —  | —                                  | —                               | —   | —                      | —                     |
| Demand .....                                | 67,750                               | —  | 2,059,906                          | —                               | —   | —                      | 3,435,479             |
| Energy .....                                | 3,570,387                            | —  | 4,351,006                          | —                               | —   | —                      | 19,853,708            |
| Other <sup>2</sup> .....                    | —                                    | —  | 716,394                            | —                               | —   | —                      | 1,194,567             |
| <b>Other<sup>3</sup></b>                    |                                      |  |                                    |                                 |   |                        |                       |
| Sales (thousand kWh) .....                  | 720,585                              | 1,376,523                                  | 2,427,238                          | 656,294                         | —   | 2,480,843              | 13,901,100            |
| Revenue (dollars) .....                     | 15,602,264                           | 32,374,316                                 | 27,881,948                         | 13,116,848                      | —   | 41,757,363             | 332,239,562           |
| Demand Charge Only <sup>1</sup> .....       | 166,667                              | —  | —                                  | —                               | —   | —                      | —                     |
| Demand .....                                | 108,941                              | 85,828                                     | —                                  | 16,128                          | —   | 727,281                | —                     |
| Energy .....                                | 15,348,280                           | 32,288,488                                 | 19,757,699                         | 13,099,920                      | —   | 41,030,082             | 318,695,346           |
| Other <sup>2</sup> .....                    | -21,624                              | —  | 8,124,249                          | 800                             | —   | —                      | 13,544,216            |
| <b>Total</b>                                |                                      |  |                                    |                                 |   |                        |                       |
| Sales (thousand kWh) .....                  | 9,645,355                            | 2,155,262                                  | 4,803,078                          | 2,050,726                       | 9,682,683   | 7,059,708              | 21,092,902            |
| Revenue (dollars) .....                     | 265,043,035                          | 45,371,850                                 | 93,495,508                         | 43,729,812                      | 158,983,092   | 212,499,883            | 526,702,146           |
| Demand Charge Only <sup>1</sup> .....       | 292,917                              | —  | 47,285                             | —                               | —   | —                      | 78,963                |
| Demand .....                                | 77,912,002                           | 801,449                                    | 11,682,261                         | 4,832,332                       | 41,737,040  | 97,014,470             | 21,651,324            |
| Energy .....                                | 212,370,227                          | 44,428,071                                 | 64,608,594                         | 35,425,841                      | 117,246,052   | 112,692,912            | 476,355,485           |
| Other <sup>2</sup> .....                    | -25,532,111                          | 142,330                                    | 17,157,368                         | 3,471,639                       | —   | 2,792,501              | 28,616,374            |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Ohio<br>Ohio Valley Electric Corp | Ohio<br>Toledo Edison Co | Oklahoma<br>Oklahoma Gas & Electric Co | Oklahoma<br>Public Service Co of Oklahoma | Oregon<br>PacifiCorp | Oregon<br>Portland General Electric Co | Pennsylvania<br>Citizens Electric Co <sup>4</sup> |
|---|-----------------------------------|--------------------------|--|---|----------------------|--|---|
| <b>Investor-Owned</b>                       |                                   |                          |  |   |                      |  |   |
| Sales (thousand kWh).....                   | 5,342,601                         | 1,602,535                | 288,128                                | 43,783                                    | 12,006,353           | 3,372,147                              | —   |
| Revenue (dollars).....                      | 88,128,059                        | 112,202,196              | 6,177,982                              | 1,632,830                                 | 344,981,357          | 60,855,557                             | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                        | —                                      | 105,000                                   | 25,000               | 22,452                                 | —   |
| Demand.....                                 | 21,554,449                        | 2,452                    | —                                      | 341,667                                   | 152,567,188          | 16,993,600                             | —   |
| Energy.....                                 | 66,573,610                        | 112,199,744              | 6,177,982                              | 1,141,955                                 | 191,640,222          | 43,596,427                             | —   |
| Other <sup>2</sup> .....                    | —                                 | —                        | —                                      | 44,208                                    | 748,947              | 243,078                                | —   |
| <b>Federal</b>                              |                                   |                          |  |   |                      |  |   |
| Sales (thousand kWh).....                   | —                                 | —                        | 41,492                                 | 81,469                                    | 2,125,683            | 528,089                                | —   |
| Revenue (dollars).....                      | —                                 | —                        | 1,165,410                              | 3,064,173                                 | 74,195,675           | 27,743,921                             | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                        | —                                      | —   | —                    | —                                      | —   |
| Demand.....                                 | —                                 | —                        | —                                      | 1,094,585                                 | 34,830,000           | 16,500,000                             | —   |
| Energy.....                                 | —                                 | —                        | 1,691,581                              | 1,850,425                                 | 40,767,834           | 11,243,861                             | —   |
| Other <sup>2</sup> .....                    | —                                 | —                        | -526,171                               | 119,163                                   | -1,402,159           | 60                                     | —   |
| <b>State and Other</b>                      |                                   |                          |  |   |                      |  |   |
| <b>Government</b>                           |                                   |                          |  |   |                      |  |   |
| Sales (thousand kWh).....                   | —                                 | —                        | 322,695                                | 38,256                                    | 3,222,499            | 737,830                                | —   |
| Revenue (dollars).....                      | —                                 | —                        | 8,738,132                              | 5,088,337                                 | 82,219,331           | 10,985,648                             | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                        | —                                      | —   | —                    | 338,000                                | —   |
| Demand.....                                 | —                                 | —                        | 2,254,320                              | 3,176,683                                 | 26,756,547           | —                                      | —   |
| Energy.....                                 | —                                 | —                        | 8,605,172                              | 908,392                                   | 55,740,539           | 10,619,568                             | —   |
| Other <sup>2</sup> .....                    | —                                 | —                        | -2,121,360                             | 1,003,262                                 | -277,755             | 28,080                                 | —   |
| <b>Municipal</b>                            |                                   |                          |  |   |                      |  |   |
| Sales (thousand kWh).....                   | —                                 | 473,712                  | 167,622                                | 38,284                                    | 2,150,970            | 1,483,713                              | —   |
| Revenue (dollars).....                      | —                                 | 20,133,278               | 4,731,996                              | 1,194,634                                 | 76,607,114           | 27,799,092                             | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                        | —                                      | —   | —                    | —                                      | —   |
| Demand.....                                 | —                                 | 5,914,477                | 1,535,113                              | 329,961                                   | 35,444,250           | 7,684,075                              | —   |
| Energy.....                                 | —                                 | 14,141,865               | 4,569,873                              | 864,673                                   | 40,626,922           | 20,739,515                             | —   |
| Other <sup>2</sup> .....                    | —                                 | 76,936                   | -1,372,990                             | —   | 535,942              | -624,498                               | —   |
| <b>Cooperative</b>                          |                                   |                          |  |   |                      |  |   |
| Sales (thousand kWh).....                   | —                                 | 905                      | 1,153,315                              | 70,680                                    | 837,392              | 36,730                                 | —   |
| Revenue (dollars).....                      | —                                 | 36,050                   | 29,079,081                             | 1,963,419                                 | 11,572,184           | 575,075                                | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                        | —                                      | —   | —                    | 750                                    | —   |
| Demand.....                                 | —                                 | 19,549                   | 9,871,999                              | 822,173                                   | 313,550              | —                                      | —   |
| Energy.....                                 | —                                 | 16,501                   | 28,604,728                             | 1,141,246                                 | 11,258,634           | 574,325                                | —   |
| Other <sup>2</sup> .....                    | —                                 | —                        | -9,397,646                             | —   | —                    | —                                      | —   |
| <b>Other<sup>3</sup></b>                    |                                   |                          |  |   |                      |  |   |
| Sales (thousand kWh).....                   | —                                 | 252,611                  | 576,243                                | 1,214,897                                 | 9,312,189            | 4,526,370                              | —   |
| Revenue (dollars).....                      | —                                 | 4,269,859                | 10,248,035                             | 26,341,213                                | 149,226,989          | 67,859,929                             | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                        | —                                      | —   | 21,000               | 242,500                                | —   |
| Demand.....                                 | —                                 | 26,604                   | —                                      | —   | 5,980,350            | —                                      | —   |
| Energy.....                                 | —                                 | 4,243,255                | 10,248,035                             | 26,173,728                                | 143,466,068          | 67,455,815                             | —   |
| Other <sup>2</sup> .....                    | —                                 | —                        | —                                      | 167,485                                   | -240,429             | 161,614                                | —   |
| <b>Total</b>                                |                                   |                          |  |   |                      |  |   |
| Sales (thousand kWh).....                   | 5,342,601                         | 2,329,763                | 2,549,495                              | 1,487,369                                 | 29,655,086           | 10,684,879                             | —   |
| Revenue (dollars).....                      | 88,128,059                        | 136,641,383              | 60,140,636                             | 39,284,606                                | 738,802,650          | 195,819,222                            | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                        | —                                      | 105,000                                   | 46,000               | 603,702                                | —   |
| Demand.....                                 | 21,554,449                        | 5,963,082                | 13,661,432                             | 5,765,069                                 | 255,891,885          | 41,177,675                             | —   |
| Energy.....                                 | 66,573,610                        | 130,601,365              | 59,897,371                             | 32,080,419                                | 483,500,219          | 154,229,511                            | —   |
| Other <sup>2</sup> .....                    | —                                 | 76,936                   | -13,418,167                            | 1,334,118                                 | -635,454             | -191,666                               | —   |

See notes and footnotes at end of table.



**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Pennsylvania<br>Duquesne Light Co | Pennsylvania<br>Metropolitan Edison Co | Pennsylvania<br>Pennsylvania Electric Co | Pennsylvania<br>Pennsylvania Power & Light Co | Pennsylvania<br>Pennsylvania Power Co | Pennsylvania<br>Philadelphia Electric Co | Pennsylvania<br>Pike County Light & Power Co <sup>4</sup> |
|---|-----------------------------------|--|--|---|---------------------------------------|--|---|
| <b>Investor-Owned</b>                       |                                   |  |  |   |                                       |  |   |
| Sales (thousand kWh).....                   | 3,136,240                         | 4,689                                  | 101,071                                  | 9,428,431                                     | 653,781                               | 14,712,025                               | —   |
| Revenue (dollars).....                      | 56,312,850                        | 261,058                                | 5,100,639                                | 347,163,162                                   | 24,545,016                            | 364,814,829                              | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Demand.....                                 | 15,221,193                        | 79,142                                 | 2,220,956                                | 2,070,925                                     | 15,368,158                            | 50,675,939                               | —   |
| Energy.....                                 | 41,091,657                        | 164,995                                | 3,066,431                                | 146,074,579                                   | 9,192,261                             | 313,684,064                              | —   |
| Other <sup>2</sup> .....                    | —                                 | 16,921                                 | -186,748                                 | 199,017,658                                   | -15,403                               | 454,826                                  | —   |
| <b>Federal</b>                              |                                   |  |  |   |                                       |  |   |
| Sales (thousand kWh).....                   | —                                 | —                                      | —  | —   | —                                     | 402,463                                  | —   |
| Revenue (dollars).....                      | —                                 | —                                      | —  | —   | —                                     | 8,489,788                                | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Demand.....                                 | —                                 | —                                      | —  | —   | —                                     | 680,346                                  | —   |
| Energy.....                                 | —                                 | —                                      | —  | —   | —                                     | 7,809,442                                | —   |
| Other <sup>2</sup> .....                    | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| <b>State and Other</b>                      |                                   |  |  |   |                                       |  |   |
| <b>Government</b>                           |                                   |  |  |   |                                       |  |   |
| Sales (thousand kWh).....                   | —                                 | —                                      | —  | —   | —                                     | 286,755                                  | —   |
| Revenue (dollars).....                      | —                                 | —                                      | —  | —   | —                                     | 6,021,300                                | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Demand.....                                 | —                                 | —                                      | —  | —   | —                                     | 502,272                                  | —   |
| Energy.....                                 | —                                 | —                                      | —  | —   | —                                     | 5,519,028                                | —   |
| Other <sup>2</sup> .....                    | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| <b>Municipal</b>                            |                                   |  |  |   |                                       |  |   |
| Sales (thousand kWh).....                   | 12,808                            | 95,793                                 | 376,264                                  | 755,539                                       | 130,509                               | 128,569                                  | —   |
| Revenue (dollars).....                      | 857,283                           | 1,456,172                              | 12,156,031                               | 29,822,917                                    | 5,650,189                             | 2,701,161                                | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Demand.....                                 | 471,607                           | 355,969                                | 5,431,171                                | 11,698,656                                    | 2,112,378                             | 418,429                                  | —   |
| Energy.....                                 | 384,240                           | 1,100,203                              | 7,175,397                                | 18,124,261                                    | 3,537,811                             | 2,282,732                                | —   |
| Other <sup>2</sup> .....                    | 1,436                             | —                                      | -450,537                                 | —   | —                                     | —  | —   |
| <b>Cooperative</b>                          |                                   |  |  |   |                                       |  |   |
| Sales (thousand kWh).....                   | —                                 | —                                      | 278,623                                  | 29,281  | —                                     | 252,607                                  | —   |
| Revenue (dollars).....                      | —                                 | 324                                    | 13,234,083                               | 1,200,454                                     | —                                     | 5,088,317                                | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| Demand.....                                 | —                                 | —                                      | 8,562,969                                | 494,739                                       | —                                     | 413,453                                  | —   |
| Energy.....                                 | —                                 | 324                                    | 4,671,114                                | 705,715                                       | —                                     | 4,674,864                                | —   |
| Other <sup>2</sup> .....                    | —                                 | —                                      | —  | —   | —                                     | —  | —   |
| <b>Other<sup>3</sup></b>                    |                                   |  |  |   |                                       |  |   |
| Sales (thousand kWh).....                   | 173,966                           | 672,326                                | 2,371,073                                | 4,125,983                                     | 321,547                               | 5,385,497                                | —   |
| Revenue (dollars).....                      | 1,978,999                         | 20,103,060                             | 52,158,638                               | 84,051,986                                    | 5,332,975                             | 135,836,153                              | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                                      | —  | —   | —                                     | 2,800                                    | —   |
| Demand.....                                 | —                                 | 648,687                                | 7,551,666                                | —   | 78,419                                | 12,089,445                               | —   |
| Energy.....                                 | 1,978,999                         | 19,459,668                             | 44,706,614                               | 84,171,551                                    | 5,254,556                             | 123,743,908                              | —   |
| Other <sup>2</sup> .....                    | —                                 | -5,295                                 | -99,642                                  | -119,565                                      | —                                     | —  | —   |
| <b>Total</b>                                |                                   |  |  |   |                                       |  |   |
| Sales (thousand kWh).....                   | 3,323,014                         | 772,808                                | 3,127,031                                | 14,339,234                                    | 1,105,837                             | 21,167,916                               | —   |
| Revenue (dollars).....                      | 59,149,132                        | 21,820,614                             | 82,649,391                               | 462,238,519                                   | 35,528,180                            | 522,951,548                              | —   |
| Demand Charge Only <sup>1</sup> .....       | —                                 | —                                      | —  | —   | —                                     | 2,800                                    | —   |
| Demand.....                                 | 15,692,800                        | 1,083,798                              | 23,766,762                               | 14,264,320                                    | 17,558,955                            | 64,779,884                               | —   |
| Energy.....                                 | 43,454,896                        | 20,725,190                             | 59,619,556                               | 249,076,106                                   | 17,984,628                            | 457,714,038                              | —   |
| Other <sup>2</sup> .....                    | 1,436                             | 11,626                                 | -736,927                                 | 198,898,093                                   | -15,403                               | 454,826                                  | —   |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Pennsylvania<br>Safe Harbor Water Power Corp <sup>5</sup> | Pennsylvania<br>Susquehanna Electric Co <sup>5</sup> | Pennsylvania<br>UGI Corp | Pennsylvania<br>West Penn Power Co | Pennsylvania<br>York Haven Power Co <sup>5</sup> | Rhode Island<br>Blackstone Valley Electric Co <sup>4</sup> | Rhode Island<br>Narragansett Electric Co |
|---|---|--|--------------------------|------------------------------------|--|--|--|
| <b>Investor-Owned</b>                       |   |  |                          |                                    |  |  |  |
| Sales (thousand kWh) .....                  | 1,577,873   | 2,382,152  | —                        | 2,623,891                          | 117,994  | —  | 586                                      |
| Revenue (dollars) .....                     | 30,332,830  | 24,333,922   | —                        | 109,543,904                        | 6,744,613  | —  | 75,375                                   |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                        | —                                  | —  | —  | —  |
| Demand .....                                | —   | 478,136  | —                        | 8,422,927                          | —  | —  | —  |
| Energy .....                                | —   | 23,801,447   | —                        | 84,893,737                         | 6,744,613  | —  | 67,787                                   |
| Other <sup>2</sup> .....                    | 30,332,830  | 54,339   | —                        | 16,227,240                         | —  | —  | 7,588                                    |
| <b>Federal</b>                              |   |  |                          |                                    |  |  |  |
| Sales (thousand kWh) .....                  | —   | —  | —                        | —                                  | —  | —  | —  |
| Revenue (dollars) .....                     | —   | —  | —                        | —                                  | —  | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                        | —                                  | —  | —  | —  |
| Demand .....                                | —   | —  | —                        | —                                  | —  | —  | —  |
| Energy .....                                | —   | —  | —                        | —                                  | —  | —  | —  |
| Other <sup>2</sup> .....                    | —   | —  | —                        | —                                  | —  | —  | —  |
| <b>State and Other</b>                      |   |  |                          |                                    |  |  |  |
| <b>Government</b>                           |   |  |                          |                                    |  |  |  |
| Sales (thousand kWh) .....                  | —   | —  | —                        | —                                  | —  | —  | —  |
| Revenue (dollars) .....                     | —   | —  | —                        | —                                  | —  | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                        | —                                  | —  | —  | —  |
| Demand .....                                | —   | —  | —                        | —                                  | —  | —  | —  |
| Energy .....                                | —   | —  | —                        | —                                  | —  | —  | —  |
| Other <sup>2</sup> .....                    | —   | —  | —                        | —                                  | —  | —  | —  |
| <b>Municipal</b>                            |   |  |                          |                                    |  |  |  |
| Sales (thousand kWh) .....                  | —   | —  | —                        | 286,931                            | —  | —  | —  |
| Revenue (dollars) .....                     | —   | —  | —                        | 11,039,867                         | —  | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                        | —                                  | —  | —  | —  |
| Demand .....                                | —   | —  | —                        | 5,487,323                          | —  | —  | —  |
| Energy .....                                | —   | —  | —                        | 5,481,498                          | —  | —  | —  |
| Other <sup>2</sup> .....                    | —   | —  | —                        | 71,046                             | —  | —  | —  |
| <b>Cooperative</b>                          |   |  |                          |                                    |  |  |  |
| Sales (thousand kWh) .....                  | —   | —  | —                        | 244,723                            | —  | —  | —  |
| Revenue (dollars) .....                     | —   | —  | —                        | 7,372,782                          | —  | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                        | —                                  | —  | —  | —  |
| Demand .....                                | —   | —  | —                        | 2,585,094                          | —  | —  | —  |
| Energy .....                                | —   | —  | —                        | 4,718,798                          | —  | —  | —  |
| Other <sup>2</sup> .....                    | —   | —  | —                        | 68,890                             | —  | —  | —  |
| <b>Other<sup>3</sup></b>                    |   |  |                          |                                    |  |  |  |
| Sales (thousand kWh) .....                  | —   | —  | —                        | 501,216                            | —  | —  | —  |
| Revenue (dollars) .....                     | —   | —  | —                        | 10,862,978                         | —  | —  | —  |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                        | —                                  | —  | —  | —  |
| Demand .....                                | —   | —  | —                        | 2,404,110                          | —  | —  | —  |
| Energy .....                                | —   | —  | —                        | 8,448,637                          | —  | —  | —  |
| Other <sup>2</sup> .....                    | —   | —  | —                        | 10,231                             | —  | —  | —  |
| <b>Total</b>                                |   |  |                          |                                    |  |  |  |
| Sales (thousand kWh) .....                  | 1,577,873   | 2,382,152  | —                        | 3,656,761                          | 117,994  | —  | 586                                      |
| Revenue (dollars) .....                     | 30,332,830  | 24,333,922   | —                        | 138,819,531                        | 6,744,613  | —  | 75,375                                   |
| Demand Charge Only <sup>1</sup> .....       | —   | —  | —                        | —                                  | —  | —  | —  |
| Demand .....                                | —   | 478,136  | —                        | 18,899,454                         | —  | —  | —  |
| Energy .....                                | —   | 23,801,447   | —                        | 103,542,670                        | 6,744,613  | —  | 67,787                                   |
| Other <sup>2</sup> .....                    | 30,332,830  | 54,339   | —                        | 16,377,407                         | —  | —  | 7,588                                    |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Rhode Island<br>Newport Electric Corp | Rhode Island<br>Ocean State Power #2 <sup>5</sup> | Rhode Island<br>Ocean State Power Co <sup>5</sup> | South Carolina<br>Lockhart Power Co | South Carolina<br>South Carolina Electric & Gas Co | South Carolina<br>South Carolina Generating Co Inc <sup>5</sup> | South Dakota<br>Black Hills Corp |
|---|---------------------------------------|---|---|-------------------------------------|--|---|----------------------------------|
| <b>Investor-Owned</b>                       |                                       |   |   |                                     |  |   |                                  |
| Sales (thousand kWh) .....                  | —                                     | —   | 1,933,490   | —                                   | 196,119  | 4,037,199   | 176,850                          |
| Revenue (dollars) .....                     | —                                     | —   | 97,108,785  | —                                   | 5,101,504  | 95,343,567  | 2,006,863                        |
| Demand Charge Only <sup>1</sup> .....       | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Demand .....                                | —                                     | —   | 74,221,834  | —                                   | 256,500  | —   | —                                |
| Energy .....                                | —                                     | —   | 18,956,711  | —                                   | 4,845,004  | 95,343,567  | 2,006,863                        |
| Other <sup>2</sup> .....                    | —                                     | —   | 3,930,240   | —                                   | —  | —   | —                                |
| <b>Federal</b>                              |                                       |   |   |                                     |  |   |                                  |
| Sales (thousand kWh) .....                  | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Revenue (dollars) .....                     | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Demand Charge Only <sup>1</sup> .....       | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Demand .....                                | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Energy .....                                | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Other <sup>2</sup> .....                    | —                                     | —   | —   | —                                   | —  | —   | —                                |
| <b>State and Other</b>                      |                                       |   |   |                                     |  |   |                                  |
| <b>Government</b>                           |                                       |   |   |                                     |  |   |                                  |
| Sales (thousand kWh) .....                  | —                                     | —   | —   | —                                   | 22,747   | —   | —                                |
| Revenue (dollars) .....                     | —                                     | —   | —   | —                                   | 548,185  | —   | —                                |
| Demand Charge Only <sup>1</sup> .....       | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Demand .....                                | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Energy .....                                | —                                     | —   | —   | —                                   | 548,185  | —   | —                                |
| Other <sup>2</sup> .....                    | —                                     | —   | —   | —                                   | —  | —   | —                                |
| <b>Municipal</b>                            |                                       |   |   |                                     |  |   |                                  |
| Sales (thousand kWh) .....                  | —                                     | —   | —   | 137,586                             | 887,322  | —   | 181,766                          |
| Revenue (dollars) .....                     | —                                     | —   | —   | 6,446,052                           | 34,396,010   | —   | 8,188,628                        |
| Demand Charge Only <sup>1</sup> .....       | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Demand .....                                | —                                     | —   | —   | 4,111,857                           | 18,269,596   | —   | 4,261,440                        |
| Energy .....                                | —                                     | —   | —   | 2,484,465                           | 16,566,604   | —   | 4,025,900                        |
| Other <sup>2</sup> .....                    | —                                     | —   | —   | -150,270                            | -440,190   | —   | -98,712                          |
| <b>Cooperative</b>                          |                                       |   |   |                                     |  |   |                                  |
| Sales (thousand kWh) .....                  | —                                     | —   | —   | —                                   | 424,275  | —   | —                                |
| Revenue (dollars) .....                     | —                                     | —   | —   | —                                   | 13,242,091   | —   | —                                |
| Demand Charge Only <sup>1</sup> .....       | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Demand .....                                | —                                     | —   | —   | —                                   | 4,689,127  | —   | —                                |
| Energy .....                                | —                                     | —   | —   | —                                   | 8,625,201  | —   | —                                |
| Other <sup>2</sup> .....                    | —                                     | —   | —   | —                                   | -72,237  | —   | —                                |
| <b>Other<sup>3</sup></b>                    |                                       |   |   |                                     |  |   |                                  |
| Sales (thousand kWh) .....                  | —                                     | —   | —   | —                                   | 387,764  | —   | 72,250                           |
| Revenue (dollars) .....                     | —                                     | —   | —   | —                                   | 9,883,866  | —   | 977,860                          |
| Demand Charge Only <sup>1</sup> .....       | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Demand .....                                | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Energy .....                                | —                                     | —   | —   | —                                   | 9,883,866  | —   | 977,860                          |
| Other <sup>2</sup> .....                    | —                                     | —   | —   | —                                   | —  | —   | —                                |
| <b>Total</b>                                |                                       |   |   |                                     |  |   |                                  |
| Sales (thousand kWh) .....                  | —                                     | —   | 1,933,490   | 137,586                             | 1,918,227  | 4,037,199   | 430,866                          |
| Revenue (dollars) .....                     | —                                     | —   | 97,108,785  | 6,446,052                           | 63,171,656   | 95,343,567  | 11,173,351                       |
| Demand Charge Only <sup>1</sup> .....       | —                                     | —   | —   | —                                   | —  | —   | —                                |
| Demand .....                                | —                                     | —   | 74,221,834  | 4,111,857                           | 23,215,223   | —   | 4,261,440                        |
| Energy .....                                | —                                     | —   | 18,956,711  | 2,484,465                           | 40,468,860   | 95,343,567  | 7,010,623                        |
| Other <sup>2</sup> .....                    | —                                     | —   | 3,930,240   | -150,270                            | -512,427   | —   | -98,712                          |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | South Dakota<br>Northwestern Public Service Co | Tennessee<br>Kingsport Power Co <sup>4</sup> | Tennessee<br>Tapoco Inc <sup>8</sup> | Texas<br>Central Power & Light Co | Texas<br>El Paso Electric Co | Texas<br>Gulf States Utilities Co | Texas<br>Houston Lighting & Power Co |
|---|--|--|--------------------------------------|-----------------------------------|------------------------------|-----------------------------------|--------------------------------------|
| <b>Investor-Owned</b>                       |  |  |                                      |                                   |                              |                                   |                                      |
| Sales (thousand kWh).....                   | 31,318   | —  | —                                    | 323,895                           | 721,851                      | 3,320                             | 321,394                              |
| Revenue (dollars).....                      | 428,949  | —  | —                                    | 9,486,043                         | 16,043,530                   | 56,341                            | 21,995,047                           |
| Demand Charge Only <sup>1</sup> .....       | —  | —  | —                                    | —                                 | —                            | —                                 | 2,574,672                            |
| Demand.....                                 | —  | —  | —                                    | —                                 | 5,400,000                    | —                                 | 12,103,270                           |
| Energy.....                                 | 428,949  | —  | —                                    | 7,592,967                         | 7,714,017                    | 56,341                            | 7,317,105                            |
| Other <sup>2</sup> .....                    | —  | —  | —                                    | 1,893,076                         | 2,929,513                    | —                                 | —                                    |
| <b>Federal</b>                              |  |  |                                      |                                   |                              |                                   |                                      |
| Sales (thousand kWh).....                   | 2,980  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Revenue (dollars).....                      | 34,227   | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand Charge Only <sup>1</sup> .....       | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                                 | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Energy.....                                 | 34,227   | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Other <sup>2</sup> .....                    | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| <b>State and Other</b>                      |  |  |                                      |                                   |                              |                                   |                                      |
| <b>Government</b>                           |  |  |                                      |                                   |                              |                                   |                                      |
| Sales (thousand kWh).....                   | 5,557  | —  | —                                    | 14,771                            | 684,319                      | 296,668                           | 66,409                               |
| Revenue (dollars).....                      | 85,509   | —  | —                                    | 510,201                           | 45,816,675                   | 15,680,792                        | 2,037,875                            |
| Demand Charge Only <sup>1</sup> .....       | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                                 | 5,533  | —  | —                                    | —                                 | 34,542,000                   | 11,078,847                        | —                                    |
| Energy.....                                 | 79,560   | —  | —                                    | 460,620                           | 4,184,709                    | 4,601,945                         | 2,037,875                            |
| Other <sup>2</sup> .....                    | 416  | —  | —                                    | 49,581                            | 7,089,966                    | —                                 | —                                    |
| <b>Municipal</b>                            |  |  |                                      |                                   |                              |                                   |                                      |
| Sales (thousand kWh).....                   | 17,435   | —  | —                                    | 161,091                           | 37,450                       | 177,679                           | 362,605                              |
| Revenue (dollars).....                      | 448,140  | —  | —                                    | 6,502,373                         | 342,344                      | 7,924,525                         | 9,195,704                            |
| Demand Charge Only <sup>1</sup> .....       | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                                 | 232,100  | —  | —                                    | 1,473,442                         | —                            | 3,436,141                         | —                                    |
| Energy.....                                 | 209,973  | —  | —                                    | 3,415,229                         | 342,315                      | 4,488,384                         | 9,195,704                            |
| Other <sup>2</sup> .....                    | 6,067  | —  | —                                    | 1,613,702                         | 29                           | —                                 | —                                    |
| <b>Cooperative</b>                          |  |  |                                      |                                   |                              |                                   |                                      |
| Sales (thousand kWh).....                   | 18,031   | —  | —                                    | 809,530                           | 40,592                       | 456,206                           | 82,425                               |
| Revenue (dollars).....                      | 224,535  | —  | —                                    | 36,721,455                        | 1,797,937                    | 18,893,328                        | 1,621,042                            |
| Demand Charge Only <sup>1</sup> .....       | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                                 | —  | —  | —                                    | 23,795,958                        | —                            | 7,580,553                         | —                                    |
| Energy.....                                 | 224,535  | —  | —                                    | 12,792,510                        | 1,323,232                    | 11,312,775                        | 1,621,042                            |
| Other <sup>2</sup> .....                    | —  | —  | —                                    | 132,987                           | 474,705                      | —                                 | —                                    |
| <b>Other<sup>3</sup></b>                    |  |  |                                      |                                   |                              |                                   |                                      |
| Sales (thousand kWh).....                   | 13   | —  | —                                    | 720,000                           | 1,027,340                    | 1,869,403                         | 435,305                              |
| Revenue (dollars).....                      | 89,773   | —  | —                                    | 18,944,305                        | 43,116,131                   | 54,400,578                        | 9,986,498                            |
| Demand Charge Only <sup>1</sup> .....       | —  | —  | —                                    | —                                 | —                            | —                                 | —                                    |
| Demand.....                                 | 330  | —  | —                                    | 2,324,437                         | 27,690,472                   | 936,594                           | —                                    |
| Energy.....                                 | 140  | —  | —                                    | 16,164,098                        | 3,659,023                    | 52,491,790                        | 9,986,498                            |
| Other <sup>2</sup> .....                    | 89,303   | —  | —                                    | 455,770                           | 11,766,636                   | 972,194                           | —                                    |
| <b>Total</b>                                |  |  |                                      |                                   |                              |                                   |                                      |
| Sales (thousand kWh).....                   | 75,334   | —  | —                                    | 2,029,287                         | 2,511,552                    | 2,803,276                         | 1,268,138                            |
| Revenue (dollars).....                      | 1,311,133                                      | —  | —                                    | 72,164,377                        | 107,116,617                  | 96,955,564                        | 44,836,166                           |
| Demand Charge Only <sup>1</sup> .....       | —  | —  | —                                    | —                                 | —                            | —                                 | 2,574,672                            |
| Demand.....                                 | 237,963  | —  | —                                    | 27,593,837                        | 67,632,472                   | 23,032,135                        | 12,103,270                           |
| Energy.....                                 | 977,384  | —  | —                                    | 40,425,424                        | 17,223,296                   | 72,951,235                        | 30,158,224                           |
| Other <sup>2</sup> .....                    | 95,786   | —  | —                                    | 4,145,116                         | 22,260,849                   | 972,194                           | —                                    |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Texas<br>Southwestern Electric Service Co | Texas<br>Southwestern Public Service Co | Texas<br>Texas Utilities Electric Co | Texas<br>Texas-New Mexico Power Co | Texas<br>West Texas Utilities Co | Vermont<br>Central Vermont Public Service Corp | Vermont<br>Citizens Utilities Co <sup>4</sup> |
|---|---|---|--------------------------------------|------------------------------------|----------------------------------|--|---|
| <b>Investor-Owned</b>                       |   |   |                                      |                                    |                                  |  |   |
| Sales (thousand kWh).....                   | 4,630                                     | 881,231                                 | 2,284,263                            | —                                  | 145,463                          | 795,092  | —   |
| Revenue (dollars).....                      | 206,135                                   | 45,059,025                              | 115,513,983                          | —                                  | 5,598,979                        | 30,231,290                                     | —   |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                       | —                                    | —                                  | —                                | 11,771   | —   |
| Demand.....                                 | 101,661                                   | 11,762,400                              | 64,240,942                           | —                                  | 2,245,735                        | 15,691,543                                     | —   |
| Energy.....                                 | 126,313                                   | 27,174,355                              | 15,165,651                           | —                                  | 3,352,129                        | 13,875,380                                     | —   |
| Other <sup>2</sup> .....                    | -21,839                                   | 6,122,270                               | 36,107,390                           | —                                  | 1,115                            | 652,596  | —   |
| <b>Federal</b>                              |   |   |                                      |                                    |                                  |  |   |
| Sales (thousand kWh).....                   | —   | —                                       | —                                    | —                                  | —                                | —  | —   |
| Revenue (dollars).....                      | —   | —                                       | —                                    | —                                  | —                                | —  | —   |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                       | —                                    | —                                  | —                                | —  | —   |
| Demand.....                                 | —   | —                                       | —                                    | —                                  | —                                | —  | —   |
| Energy.....                                 | —   | —                                       | —                                    | —                                  | —                                | —  | —   |
| Other <sup>2</sup> .....                    | —   | —                                       | —                                    | —                                  | —                                | —  | —   |
| <b>State and Other</b>                      |   |   |                                      |                                    |                                  |  |   |
| <b>Government</b>                           |   |   |                                      |                                    |                                  |  |   |
| Sales (thousand kWh).....                   | —   | 1,445                                   | 87,214                               | —                                  | —                                | 20,892   | —   |
| Revenue (dollars).....                      | —   | 24,911                                  | 2,414,127                            | —                                  | —                                | 528,126  | —   |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                       | —                                    | —                                  | —                                | —  | —   |
| Demand.....                                 | —   | —                                       | —                                    | —                                  | —                                | —  | —   |
| Energy.....                                 | —   | 24,911                                  | 2,414,127                            | —                                  | —                                | 513,059  | —   |
| Other <sup>2</sup> .....                    | —   | —                                       | —                                    | —                                  | —                                | 15,067   | —   |
| <b>Municipal</b>                            |   |   |                                      |                                    |                                  |  |   |
| Sales (thousand kWh).....                   | —   | 525,484                                 | 628,453                              | —                                  | 100,037                          | 203,833  | —   |
| Revenue (dollars).....                      | —   | 17,140,055                              | 18,337,304                           | —                                  | 3,511,432                        | 5,844,039                                      | —   |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                       | —                                    | —                                  | —                                | 8,606  | —   |
| Demand.....                                 | —   | 4,695,672                               | 4,321,383                            | —                                  | 1,122,659                        | 1,150,547                                      | —   |
| Energy.....                                 | —   | 6,072,490                               | 4,866,861                            | —                                  | 2,396,498                        | 4,652,737                                      | —   |
| Other <sup>2</sup> .....                    | —   | 6,371,893                               | 9,149,060                            | —                                  | -7,725                           | 32,149   | —   |
| <b>Cooperative</b>                          |   |   |                                      |                                    |                                  |  |   |
| Sales (thousand kWh).....                   | —   | 5,209,313                               | 1,426,060                            | 4,944                              | 2,004,967                        | 16,818   | —   |
| Revenue (dollars).....                      | —   | 189,959,710                             | 81,067,095                           | 267,908                            | 74,337,875                       | 424,975  | —   |
| Demand Charge Only <sup>1</sup> .....       | —   | 45,200                                  | —                                    | —                                  | —                                | —  | —   |
| Demand.....                                 | —   | 80,900,428                              | 49,978,453                           | 122,132                            | 25,617,575                       | 87,929   | —   |
| Energy.....                                 | —   | 11,471,947                              | 6,162,661                            | 121,917                            | 48,720,300                       | 337,046  | —   |
| Other <sup>2</sup> .....                    | —   | 97,542,135                              | 24,925,981                           | 23,859                             | —                                | —  | —   |
| <b>Other<sup>3</sup></b>                    |   |   |                                      |                                    |                                  |  |   |
| Sales (thousand kWh).....                   | 1,067                                     | 153,596                                 | 672,722                              | —                                  | 160,524                          | 335,283  | —   |
| Revenue (dollars).....                      | 47,947                                    | 5,361,091                               | 17,604,232                           | 15,004                             | 5,472,981                        | 17,075,574                                     | —   |
| Demand Charge Only <sup>1</sup> .....       | —   | —                                       | —                                    | —                                  | —                                | —  | —   |
| Demand.....                                 | 22,990                                    | —                                       | —                                    | —                                  | 11,063                           | 8,958,288                                      | —   |
| Energy.....                                 | 29,092                                    | 2,925,613                               | 17,604,232                           | —                                  | 4,117,452                        | 8,059,749                                      | —   |
| Other <sup>2</sup> .....                    | -4,135                                    | 2,435,478                               | —                                    | 15,004                             | 1,344,466                        | 57,537   | —   |
| <b>Total</b>                                |   |   |                                      |                                    |                                  |  |   |
| Sales (thousand kWh).....                   | 5,697                                     | 6,771,069                               | 5,098,712                            | 4,944                              | 2,410,991                        | 1,371,918                                      | —   |
| Revenue (dollars).....                      | 254,082                                   | 257,544,792                             | 234,936,741                          | 282,912                            | 88,921,267                       | 54,104,004                                     | —   |
| Demand Charge Only <sup>1</sup> .....       | —   | 45,200                                  | —                                    | —                                  | —                                | 20,377   | —   |
| Demand.....                                 | 124,651                                   | 97,358,500                              | 118,540,778                          | 122,132                            | 28,997,032                       | 25,888,307                                     | —   |
| Energy.....                                 | 155,405                                   | 47,669,316                              | 46,213,532                           | 121,917                            | 58,586,379                       | 27,437,971                                     | —   |
| Other <sup>2</sup> .....                    | -25,974                                   | 112,471,776                             | 70,182,431                           | 38,863                             | 1,337,856                        | 757,349  | —   |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Vermont<br>Green Mountain Power Corp | Vermont<br>Vermont Electric Power Co Inc | Vermont<br>Vermont Electric Trans Co <sup>6</sup> | Vermont<br>Vermont Marble Co <sup>8</sup> | Vermont<br>Vermont Yankee Nuclear Power Corp <sup>5</sup> | Virginia<br>Appalachian Power Co | Virginia<br>Virginia Electric Power Co |
|---|--------------------------------------|--|---|---|---|----------------------------------|--|
| <b>Investor-Owned</b>                       |                                      |  |   |   |   |                                  |  |
| Sales (thousand kWh) .....                  | 477,388                              | 499,228                                  | —   | —   | 3,798,790   | 4,984,709                        | 4,243,434                              |
| Revenue (dollars) .....                     | 13,925,921                           | 16,545,334                               | —   | —   | 181,715,081   | 145,346,053                      | 94,129,696                             |
| Demand Charge Only <sup>1</sup> .....       | —                                    | —  | —   | —   | —   | 96,700                           | —                                      |
| Demand .....                                | 4,603,570                            | 7,909,789                                | —   | —   | —   | 41,921,814                       | 2,815,931                              |
| Energy .....                                | 9,322,351                            | 8,627,680                                | —   | —   | —   | 88,754,289                       | 91,313,765                             |
| Other <sup>2</sup> .....                    | —                                    | 7,865                                    | —   | —   | 181,715,081   | 14,573,250                       | —                                      |
| <b>Federal</b>                              |                                      |  |   |   |   |                                  |  |
| Sales (thousand kWh) .....                  | —                                    | —  | —   | —   | —   | 185,529                          | 5,582                                  |
| Revenue (dollars) .....                     | —                                    | —  | —   | —   | —   | 5,349,792                        | 124,138                                |
| Demand Charge Only <sup>1</sup> .....       | —                                    | —  | —   | —   | —   | —                                | —                                      |
| Demand .....                                | —                                    | —  | —   | —   | —   | —                                | —                                      |
| Energy .....                                | —                                    | —  | —   | —   | —   | 4,725,084                        | 124,138                                |
| Other <sup>2</sup> .....                    | —                                    | —  | —   | —   | —   | 624,708                          | —                                      |
| <b>State and Other</b>                      |                                      |  |   |   |   |                                  |  |
| <b>Government</b>                           |                                      |  |   |   |   |                                  |  |
| Sales (thousand kWh) .....                  | 7,316                                | —  | —   | —   | —   | 127,831                          | —                                      |
| Revenue (dollars) .....                     | 180,571                              | —  | —   | —   | —   | 2,770,197                        | —                                      |
| Demand Charge Only <sup>1</sup> .....       | —                                    | —  | —   | —   | —   | —                                | —                                      |
| Demand .....                                | —                                    | —  | —   | —   | —   | —                                | —                                      |
| Energy .....                                | 180,571                              | —  | —   | —   | —   | 2,415,261                        | —                                      |
| Other <sup>2</sup> .....                    | —                                    | —  | —   | —   | —   | 354,936                          | —                                      |
| <b>Municipal</b>                            |                                      |  |   |   |   |                                  |  |
| Sales (thousand kWh) .....                  | 34,049                               | 314,636                                  | —   | —   | —   | 2,164,749                        | 1,260,685                              |
| Revenue (dollars) .....                     | 1,985,011                            | 13,503,355                               | —   | —   | —   | 71,504,611                       | 49,569,896                             |
| Demand Charge Only <sup>1</sup> .....       | —                                    | —  | —   | —   | —   | —                                | —                                      |
| Demand .....                                | 824,779                              | 9,936,561                                | —   | —   | —   | 33,411,329                       | 28,898,825                             |
| Energy .....                                | 1,150,369                            | 2,853,767                                | —   | —   | —   | 36,617,601                       | 24,542,895                             |
| Other <sup>2</sup> .....                    | 9,863                                | 713,027                                  | —   | —   | —   | 1,475,681                        | -3,871,824                             |
| <b>Cooperative</b>                          |                                      |  |   |   |   |                                  |  |
| Sales (thousand kWh) .....                  | 28,339                               | 49,511                                   | —   | —   | —   | 846,086                          | 3,226,855                              |
| Revenue (dollars) .....                     | 1,021,310                            | 1,980,441                                | —   | —   | —   | 23,281,247                       | 143,052,779                            |
| Demand Charge Only <sup>1</sup> .....       | 2,460                                | —  | —   | —   | —   | —                                | —                                      |
| Demand .....                                | 202,460                              | 1,464,483                                | —   | —   | —   | 8,739,938                        | 86,270,437                             |
| Energy .....                                | 815,562                              | 399,081                                  | —   | —   | —   | 12,982,957                       | 66,243,997                             |
| Other <sup>2</sup> .....                    | 828                                  | 116,877                                  | —   | —   | —   | 1,558,352                        | -9,461,655                             |
| <b>Other<sup>3</sup></b>                    |                                      |  |   |   |   |                                  |  |
| Sales (thousand kWh) .....                  | 154,743                              | —  | —   | —   | —   | 8,163,745                        | 2,283,564                              |
| Revenue (dollars) .....                     | 3,553,765                            | —  | —   | —   | —   | 84,547,612                       | 56,163,177                             |
| Demand Charge Only <sup>1</sup> .....       | —                                    | —  | —   | —   | —   | —                                | 60,000                                 |
| Demand .....                                | 103,410                              | —  | —   | —   | —   | 3,446,532                        | 1,425,570                              |
| Energy .....                                | 3,450,355                            | —  | —   | —   | —   | 64,516,746                       | 54,677,607                             |
| Other <sup>2</sup> .....                    | —                                    | —  | —   | —   | —   | 16,584,334                       | —                                      |
| <b>Total</b>                                |                                      |  |   |   |   |                                  |  |
| Sales (thousand kWh) .....                  | 701,835                              | 863,375                                  | —   | —   | 3,798,790   | 16,472,649                       | 11,020,120                             |
| Revenue (dollars) .....                     | 20,666,578                           | 32,029,130                               | —   | —   | 181,715,081   | 332,799,512                      | 343,039,686                            |
| Demand Charge Only <sup>1</sup> .....       | 2,460                                | —  | —   | —   | —   | 96,700                           | 60,000                                 |
| Demand .....                                | 5,734,219                            | 19,310,833                               | —   | —   | —   | 87,519,613                       | 119,410,763                            |
| Energy .....                                | 14,919,208                           | 11,880,528                               | —   | —   | —   | 210,011,938                      | 236,902,402                            |
| Other <sup>2</sup> .....                    | 10,691                               | 837,769                                  | —   | —   | 181,715,081   | 35,171,261                       | -13,333,479                            |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Washington                   | Washington                | West Virginia                        | West Virginia        | West Virginia                     | West Virginia                  | Wisconsin                   |
|---|------------------------------|---------------------------|--------------------------------------|----------------------|-----------------------------------|--------------------------------|-----------------------------|
|   | Puget Sound Power & Light Co | Washington Water Power Co | Kanawha Valley Power Co <sup>5</sup> | Monongahela Power Co | UtiliCorp United Inc <sup>4</sup> | Wheeling Power Co <sup>4</sup> | Consolidated Water Power Co |
| <b>Investor-Owned</b>                       |                              |                           |                                      |                      |                                   |                                |                             |
| Sales (thousand kWh) .....                  | 2,439,569                    | 3,286,354                 | —                                    | 2,532,666            | —                                 | —                              | 439                         |
| Revenue (dollars) .....                     | 33,272,104                   | 92,899,775                | —                                    | 108,059,092          | —                                 | —                              | 2,904                       |
| Demand Charge Only <sup>1</sup> .....       | —                            | 19,404,000                | —                                    | —                    | —                                 | —                              | —                           |
| Demand .....                                | —                            | 9,104,217                 | —                                    | 4,942,255            | —                                 | —                              | —                           |
| Energy .....                                | 33,272,104                   | 64,379,401                | —                                    | 60,982,725           | —                                 | —                              | 2,904                       |
| Other <sup>2</sup> .....                    | —                            | 12,157                    | —                                    | 42,134,112           | —                                 | —                              | —                           |
| <b>Federal</b>                              |                              |                           |                                      |                      |                                   |                                |                             |
| Sales (thousand kWh) .....                  | 365,830                      | 6,100                     | —                                    | —                    | —                                 | —                              | —                           |
| Revenue (dollars) .....                     | 10,378,608                   | 95,238                    | —                                    | —                    | —                                 | —                              | —                           |
| Demand Charge Only <sup>1</sup> .....       | —                            | —                         | —                                    | —                    | —                                 | —                              | —                           |
| Demand .....                                | 200,000                      | —                         | —                                    | —                    | —                                 | —                              | —                           |
| Energy .....                                | 10,178,608                   | 95,238                    | —                                    | —                    | —                                 | —                              | —                           |
| Other <sup>2</sup> .....                    | —                            | —                         | —                                    | —                    | —                                 | —                              | —                           |
| <b>State and Other</b>                      |                              |                           |                                      |                      |                                   |                                |                             |
| <b>Government</b>                           |                              |                           |                                      |                      |                                   |                                |                             |
| Sales (thousand kWh) .....                  | 301,039                      | 2,133,341                 | —                                    | —                    | —                                 | —                              | —                           |
| Revenue (dollars) .....                     | 3,958,763                    | 51,592,921                | —                                    | —                    | —                                 | —                              | —                           |
| Demand Charge Only <sup>1</sup> .....       | —                            | 318,250                   | —                                    | —                    | —                                 | —                              | —                           |
| Demand .....                                | 4,037                        | 7,966,000                 | —                                    | —                    | —                                 | —                              | —                           |
| Energy .....                                | 3,954,726                    | 43,150,618                | —                                    | —                    | —                                 | —                              | —                           |
| Other <sup>2</sup> .....                    | —                            | 158,053                   | —                                    | —                    | —                                 | —                              | —                           |
| <b>Municipal</b>                            |                              |                           |                                      |                      |                                   |                                |                             |
| Sales (thousand kWh) .....                  | 379,942                      | 263,161                   | —                                    | 72,404               | —                                 | —                              | —                           |
| Revenue (dollars) .....                     | 4,543,411                    | 5,204,026                 | —                                    | 2,946,501            | —                                 | —                              | —                           |
| Demand Charge Only <sup>1</sup> .....       | —                            | 180,000                   | —                                    | —                    | —                                 | —                              | —                           |
| Demand .....                                | 71,590                       | 457,500                   | —                                    | 1,418,524            | —                                 | —                              | —                           |
| Energy .....                                | 4,462,997                    | 4,566,526                 | —                                    | 1,741,673            | —                                 | —                              | —                           |
| Other <sup>2</sup> .....                    | 8,824                        | —                         | —                                    | -213,696             | —                                 | —                              | —                           |
| <b>Cooperative</b>                          |                              |                           |                                      |                      |                                   |                                |                             |
| Sales (thousand kWh) .....                  | —                            | 6,024                     | —                                    | 53,196               | —                                 | —                              | —                           |
| Revenue (dollars) .....                     | —                            | 83,412                    | —                                    | 2,264,908            | —                                 | —                              | —                           |
| Demand Charge Only <sup>1</sup> .....       | —                            | —                         | —                                    | —                    | —                                 | —                              | —                           |
| Demand .....                                | —                            | —                         | —                                    | 1,185,812            | —                                 | —                              | —                           |
| Energy .....                                | —                            | 83,412                    | —                                    | 1,326,340            | —                                 | —                              | —                           |
| Other <sup>2</sup> .....                    | —                            | —                         | —                                    | -247,244             | —                                 | —                              | —                           |
| <b>Other<sup>3</sup></b>                    |                              |                           |                                      |                      |                                   |                                |                             |
| Sales (thousand kWh) .....                  | 1,202,171                    | 5,479,679                 | —                                    | 221,046              | —                                 | —                              | —                           |
| Revenue (dollars) .....                     | 20,694,611                   | 80,687,801                | —                                    | 4,790,281            | —                                 | —                              | —                           |
| Demand Charge Only <sup>1</sup> .....       | —                            | 263,900                   | —                                    | —                    | —                                 | —                              | —                           |
| Demand .....                                | 1,272,640                    | 854,900                   | —                                    | 969,977              | —                                 | —                              | —                           |
| Energy .....                                | 19,275,094                   | 79,553,095                | —                                    | 3,820,304            | —                                 | —                              | —                           |
| Other <sup>2</sup> .....                    | 146,877                      | 15,906                    | —                                    | —                    | —                                 | —                              | —                           |
| <b>Total</b>                                |                              |                           |                                      |                      |                                   |                                |                             |
| Sales (thousand kWh) .....                  | 4,688,551                    | 11,174,659                | —                                    | 2,879,312            | —                                 | —                              | 439                         |
| Revenue (dollars) .....                     | 72,847,497                   | 230,563,173               | —                                    | 118,060,782          | —                                 | —                              | 2,904                       |
| Demand Charge Only <sup>1</sup> .....       | —                            | 20,166,150                | —                                    | —                    | —                                 | —                              | —                           |
| Demand .....                                | 1,548,267                    | 18,382,617                | —                                    | 8,516,568            | —                                 | —                              | —                           |
| Energy .....                                | 71,143,529                   | 191,828,290               | —                                    | 67,871,042           | —                                 | —                              | 2,904                       |
| Other <sup>2</sup> .....                    | 155,701                      | 186,116                   | —                                    | 41,673,172           | —                                 | —                              | —                           |

See notes and footnotes at end of table.

**Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)**

| Purchaser of Electricity by Ownership Class | Wisconsin Electric Power Co | Wisconsin Power & Light Co | Wisconsin Public Service Corp | Wisconsin River Power Co <sup>5</sup> | Wyoming Cheyenne Light Fuel & Power Co <sup>4</sup> |
|---|-----------------------------|----------------------------|-------------------------------|---------------------------------------|---|
| <b>Investor-Owned</b>                       |                             |                            |                               |                                       |   |
| Sales (thousand kWh) .....                  | 897,556                     | 1,833,248                  | 608,451                       | 226,023                               | —   |
| Revenue (dollars) .....                     | 23,176,207                  | 34,915,073                 | 14,909,350                    | 5,111,906                             | —   |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | 30,000                        | —                                     | —   |
| Demand .....                                | 5,916,720                   | 1,214,960                  | 5,596,441                     | —                                     | —   |
| Energy .....                                | 17,271,125                  | 32,409,974                 | 12,016,594                    | 5,111,906                             | —   |
| Other <sup>2</sup> .....                    | -11,638                     | 1,290,139                  | -2,733,685                    | —                                     | —   |
| <b>Federal</b>                              |                             |                            |                               |                                       |   |
| Sales (thousand kWh) .....                  | —                           | —                          | —                             | —                                     | —   |
| Revenue (dollars) .....                     | —                           | —                          | —                             | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                             | —                                     | —   |
| Demand .....                                | —                           | —                          | —                             | —                                     | —   |
| Energy .....                                | —                           | —                          | —                             | —                                     | —   |
| Other <sup>2</sup> .....                    | —                           | —                          | —                             | —                                     | —   |
| <b>State and Other</b>                      |                             |                            |                               |                                       |   |
| <b>Government</b>                           |                             |                            |                               |                                       |   |
| Sales (thousand kWh) .....                  | —                           | —                          | —                             | —                                     | —   |
| Revenue (dollars) .....                     | —                           | —                          | —                             | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                             | —                                     | —   |
| Demand .....                                | —                           | —                          | —                             | —                                     | —   |
| Energy .....                                | —                           | —                          | —                             | —                                     | —   |
| Other <sup>2</sup> .....                    | —                           | —                          | —                             | —                                     | —   |
| <b>Municipal</b>                            |                             |                            |                               |                                       |   |
| Sales (thousand kWh) .....                  | 1,348,669                   | 2,298,731                  | 1,240,463                     | —                                     | —   |
| Revenue (dollars) .....                     | 42,423,202                  | 70,377,832                 | 32,910,554                    | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                             | —                                     | —   |
| Demand .....                                | 15,240,440                  | 28,220,093                 | 13,282,569                    | —                                     | —   |
| Energy .....                                | 28,109,867                  | 48,216,910                 | 26,803,519                    | —                                     | —   |
| Other <sup>2</sup> .....                    | -927,105                    | -6,059,171                 | -7,175,534                    | —                                     | —   |
| <b>Cooperative</b>                          |                             |                            |                               |                                       |   |
| Sales (thousand kWh) .....                  | 26,191                      | 575,673                    | 36,543                        | —                                     | —   |
| Revenue (dollars) .....                     | 887,034                     | 18,013,716                 | 897,952                       | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                             | —                                     | —   |
| Demand .....                                | 333,835                     | 7,894,453                  | 263,337                       | —                                     | —   |
| Energy .....                                | 533,528                     | 12,385,023                 | 727,807                       | —                                     | —   |
| Other <sup>2</sup> .....                    | 19,671                      | -2,265,760                 | -93,192                       | —                                     | —   |
| <b>Other<sup>3</sup></b>                    |                             |                            |                               |                                       |   |
| Sales (thousand kWh) .....                  | 120,995                     | 3,567,722                  | 16,651                        | —                                     | —   |
| Revenue (dollars) .....                     | 3,074,265                   | 14,602,063                 | 294,328                       | —                                     | —   |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | —                             | —                                     | —   |
| Demand .....                                | 172,800                     | 10,083                     | 14,437                        | —                                     | —   |
| Energy .....                                | 2,696,465                   | 14,787,355                 | 279,891                       | —                                     | —   |
| Other <sup>2</sup> .....                    | 205,000                     | -195,375                   | —                             | —                                     | —   |
| <b>Total</b>                                |                             |                            |                               |                                       |   |
| Sales (thousand kWh) .....                  | 2,393,411                   | 8,275,374                  | 1,902,108                     | 226,023                               | —   |
| Revenue (dollars) .....                     | 69,560,708                  | 137,908,684                | 49,012,184                    | 5,111,906                             | —   |
| Demand Charge Only <sup>1</sup> .....       | —                           | —                          | 30,000                        | —                                     | —   |
| Demand .....                                | 21,663,795                  | 37,339,589                 | 19,156,784                    | —                                     | —   |
| Energy .....                                | 48,610,985                  | 107,799,262                | 39,827,811                    | 5,111,906                             | —   |
| Other <sup>2</sup> .....                    | -714,072                    | -7,230,167                 | -10,002,411                   | —                                     | —   |

<sup>1</sup> Monetary settlements from contracts where electricity is not taken.

<sup>2</sup> Includes other transactions involving line and substation rentals, system support charges, and special contract transactions.

<sup>3</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

<sup>4</sup> FERC Form 1 respondent with purchased power transactions, but no sales for resale transactions.

<sup>5</sup> FERC Form 1 respondent with sales for resale transactions, but no purchased power transactions.

<sup>6</sup> FERC Form 1 respondent with only wheeling.

<sup>7</sup> FERC Form 1 respondent with only exchanges.

<sup>8</sup> FERC Form 1 respondent with no purchased power, sales for resale, exchanges, or wheeling.

—Not Applicable

Notes: •For identification purposes, the utilities are listed in the State in which the corporate office is located. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."



**Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996**

| State / Utility                      | Investor-Owned          |                          |                      | Federal                 |                          |                      | State and Other Government |
|--------------------------------------|-------------------------|--------------------------|----------------------|-------------------------|--------------------------|----------------------|----------------------------|
|                                      | Received (thousand kWh) | Delivered (thousand kWh) | Settlement (dollars) | Received (thousand kWh) | Delivered (thousand kWh) | Settlement (dollars) | Received (thousand kWh)    |
| <b>Alabama</b>                       |                         |                          |                      |                         |                          |                      |                            |
| Alabama Power Co .....               | —                       | —                        | —                    | 1,641                   | 53                       | —                    | —                          |
| <b>Arizona</b>                       |                         |                          |                      |                         |                          |                      |                            |
| Arizona Public Service Co .....      | —                       | —                        | —                    | —                       | 250                      | —                    | 12,687                     |
| Tucson Electric Power Co .....       | 138,607                 | 122,874                  | 1,260,000            | —                       | —                        | —                    | —                          |
| <b>Arkansas</b>                      |                         |                          |                      |                         |                          |                      |                            |
| Entergy Arkansas Inc .....           | —                       | —                        | —                    | —                       | —                        | —                    | —                          |
| <b>California</b>                    |                         |                          |                      |                         |                          |                      |                            |
| Pacific Gas & Electric Co .....      | 412,240                 | 418,178                  | -68,060              | 1,373,305               | 1,995,540                | 15,396,145           | 204,860                    |
| San Diego Gas & Electric Co .....    | 22,333                  | 20,514                   | —                    | 306,604                 | 233,869                  | 2,356,915            | 3,080                      |
| Southern California Edison Co .....  | 49,705                  | 158,553                  | —                    | 106,535                 | 116,707                  | —                    | —                          |
| <b>Colorado</b>                      |                         |                          |                      |                         |                          |                      |                            |
| Public Service Co of Colorado .....  | —                       | —                        | —                    | -101,099                | 13,665                   | —                    | 366                        |
| <b>Connecticut</b>                   |                         |                          |                      |                         |                          |                      |                            |
| Citizens Utilities Co .....          | 92,199                  | 33,849                   | 977,123              | —                       | —                        | —                    | —                          |
| United Illuminating Co .....         | 329,370                 | —                        | 10,705,840           | —                       | —                        | —                    | —                          |
| <b>Florida</b>                       |                         |                          |                      |                         |                          |                      |                            |
| Florida Power & Light Co .....       | —                       | —                        | —                    | —                       | —                        | —                    | —                          |
| <b>Georgia</b>                       |                         |                          |                      |                         |                          |                      |                            |
| Georgia Power Co .....               | —                       | —                        | —                    | —                       | —                        | —                    | —                          |
| Savannah Electric & Power Co .....   | —                       | —                        | —                    | —                       | —                        | —                    | —                          |
| <b>Hawaii</b>                        |                         |                          |                      |                         |                          |                      |                            |
| Maui Electric Co Ltd .....           | —                       | —                        | —                    | —                       | —                        | —                    | —                          |
| <b>Idaho</b>                         |                         |                          |                      |                         |                          |                      |                            |
| Idaho Power Co .....                 | 138,125                 | 122,991                  | —                    | 434,858                 | 471,581                  | —                    | 6,870                      |
| <b>Illinois</b>                      |                         |                          |                      |                         |                          |                      |                            |
| Central Illinois Light Co .....      | 113                     | 13                       | 2,187                | —                       | —                        | —                    | —                          |
| Central Illinois Pub Serv Co .....   | 113                     | 113                      | 84                   | —                       | —                        | —                    | —                          |
| Commonwealth Edison Co .....         | 60,000                  | —                        | —                    | —                       | —                        | —                    | —                          |
| <b>Indiana</b>                       |                         |                          |                      |                         |                          |                      |                            |
| Alcoa Generating Corp .....          | 9,949                   | 12,301                   | —                    | —                       | —                        | —                    | —                          |
| Indianapolis Power & Light Co .....  | 648                     | 226                      | —                    | —                       | —                        | —                    | —                          |
| PSI Energy Inc .....                 | 660                     | —                        | —                    | —                       | —                        | —                    | —                          |
| <b>Kansas</b>                        |                         |                          |                      |                         |                          |                      |                            |
| Western Resources Inc .....          | 2,587                   | —                        | 19,399               | —                       | —                        | —                    | —                          |
| <b>Kentucky</b>                      |                         |                          |                      |                         |                          |                      |                            |
| Kentucky Utilities Co .....          | —                       | 100                      | —                    | —                       | —                        | —                    | —                          |
| <b>Maine</b>                         |                         |                          |                      |                         |                          |                      |                            |
| Maine Public Service Co .....        | —                       | —                        | —                    | —                       | —                        | —                    | —                          |
| <b>Maryland</b>                      |                         |                          |                      |                         |                          |                      |                            |
| Potomac Edison Co .....              | 340,400                 | 327,413                  | 275,019              | —                       | —                        | —                    | —                          |
| <b>Massachusetts</b>                 |                         |                          |                      |                         |                          |                      |                            |
| New England Power Co .....           | 213,209                 | 154,421                  | —                    | —                       | —                        | —                    | —                          |
| <b>Michigan</b>                      |                         |                          |                      |                         |                          |                      |                            |
| Detroit Edison Co .....              | —                       | 39,489                   | —                    | —                       | —                        | —                    | —                          |
| Upper Peninsula Power Co .....       | —                       | —                        | —                    | —                       | —                        | —                    | —                          |
| <b>Minnesota</b>                     |                         |                          |                      |                         |                          |                      |                            |
| Northern States Power Co .....       | —                       | —                        | —                    | 31,848                  | —                        | —                    | 23,351                     |
| <b>Missouri</b>                      |                         |                          |                      |                         |                          |                      |                            |
| Empire District Electric Co .....    | —                       | —                        | —                    | 1,280                   | 1,860                    | —                    | —                          |
| Kansas City Power & Light Co .....   | —                       | —                        | —                    | —                       | —                        | —                    | —                          |
| UtiliCorp United Inc .....           | 40,000                  | 54,969                   | 11,514               | —                       | 1,456                    | —                    | —                          |
| <b>Montana</b>                       |                         |                          |                      |                         |                          |                      |                            |
| Montana Power Co .....               | 660,849                 | 678,144                  | 9,157                | 1,239,078               | 1,629,889                | -1,989,002           | —                          |
| <b>New Mexico</b>                    |                         |                          |                      |                         |                          |                      |                            |
| Public Service Co of NM .....        | 67,463                  | 78,678                   | —                    | 7,154                   | 6,203                    | —                    | 8,828                      |
| <b>New York</b>                      |                         |                          |                      |                         |                          |                      |                            |
| Central Hudson Gas & Elec Corp ..... | —                       | —                        | —                    | —                       | —                        | —                    | —                          |
| Consolidated Edison Co-NY Inc .....  | —                       | —                        | —                    | —                       | —                        | —                    | 210,244                    |
| New York State Elec & Gas Corp ..... | —                       | —                        | —                    | —                       | —                        | —                    | 157,496                    |
| <b>North Carolina</b>                |                         |                          |                      |                         |                          |                      |                            |
| Duke Power Co .....                  | 8,411                   | 3,007                    | —                    | 558                     | 1,614                    | —                    | —                          |
| <b>North Dakota</b>                  |                         |                          |                      |                         |                          |                      |                            |
| MDU Resources Group Inc .....        | —                       | —                        | —                    | 40,207                  | 33,590                   | 102,695              | —                          |
| <b>Ohio</b>                          |                         |                          |                      |                         |                          |                      |                            |
| Cincinnati Gas & Electric Co .....   | —                       | —                        | —                    | —                       | —                        | —                    | —                          |
| Cleveland Electric Illum Co .....    | 9,340                   | 16,548                   | -129,744             | —                       | —                        | —                    | —                          |
| Dayton Power & Light Co .....        | 55                      | 1,208                    | -29,238              | —                       | —                        | —                    | —                          |
| Ohio Edison Co .....                 | 29,632                  | —                        | —                    | —                       | —                        | —                    | —                          |
| Ohio Power Co .....                  | 48,859                  | 1,617                    | —                    | —                       | —                        | —                    | —                          |
| Toledo Edison Co .....               | 1,413                   | 4,244                    | 7,429                | —                       | —                        | —                    | —                          |

See notes and footnotes at end of table.

**Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                      | State and Other Government |                      | Municipal               |                          |                      | Cooperative             |                          |
|--------------------------------------|----------------------------|----------------------|-------------------------|--------------------------|----------------------|-------------------------|--------------------------|
|                                      | Delivered (thousand kWh)   | Settlement (dollars) | Received (thousand kWh) | Delivered (thousand kWh) | Settlement (dollars) | Received (thousand kWh) | Delivered (thousand kWh) |
| <b>Alabama</b>                       |                            |                      |                         |                          |                      |                         |                          |
| Alabama Power Co .....               | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Arizona</b>                       |                            |                      |                         |                          |                      |                         |                          |
| Arizona Public Service Co .....      | 23,204                     | —                    | —                       | —                        | —                    | —                       | —                        |
| Tucson Electric Power Co .....       | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Arkansas</b>                      |                            |                      |                         |                          |                      |                         |                          |
| Entergy Arkansas Inc .....           | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>California</b>                    |                            |                      |                         |                          |                      |                         |                          |
| Pacific Gas & Electric Co .....      | —                          | 7,556,226            | 65,204                  | 69,147                   | -81,584              | —                       | —                        |
| San Diego Gas & Electric Co .....    | 3,374                      | —                    | —                       | —                        | —                    | —                       | —                        |
| Southern California Edison Co .....  | —                          | —                    | 125,661                 | 208,385                  | —                    | —                       | —                        |
| <b>Colorado</b>                      |                            |                      |                         |                          |                      |                         |                          |
| Public Service Co of Colorado .....  | 5,798                      | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Connecticut</b>                   |                            |                      |                         |                          |                      |                         |                          |
| Citizens Utilities Co .....          | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| United Illuminating Co .....         | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Florida</b>                       |                            |                      |                         |                          |                      |                         |                          |
| Florida Power & Light Co .....       | —                          | —                    | —                       | —                        | —                    | 4,455                   | 758                      |
| <b>Georgia</b>                       |                            |                      |                         |                          |                      |                         |                          |
| Georgia Power Co .....               | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| Savannah Electric & Power Co .....   | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Hawaii</b>                        |                            |                      |                         |                          |                      |                         |                          |
| Maui Electric Co Ltd .....           | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Idaho</b>                         |                            |                      |                         |                          |                      |                         |                          |
| Idaho Power Co .....                 | 8,115                      | —                    | 126,000                 | 126,000                  | —                    | —                       | —                        |
| <b>Illinois</b>                      |                            |                      |                         |                          |                      |                         |                          |
| Central Illinois Light Co .....      | —                          | —                    | 20                      | —                        | 440                  | —                       | —                        |
| Central Illinois Pub Serv Co .....   | —                          | —                    | 20                      | 125                      | -2,368               | 17,565                  | 27,433                   |
| Commonwealth Edison Co .....         | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Indiana</b>                       |                            |                      |                         |                          |                      |                         |                          |
| Alcoa Generating Corp .....          | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| Indianapolis Power & Light Co .....  | —                          | —                    | —                       | —                        | —                    | 1                       | —                        |
| PSI Energy Inc .....                 | —                          | —                    | —                       | —                        | —                    | 3,033                   | 9,174                    |
| <b>Kansas</b>                        |                            |                      |                         |                          |                      |                         |                          |
| Western Resources Inc .....          | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Kentucky</b>                      |                            |                      |                         |                          |                      |                         |                          |
| Kentucky Utilities Co .....          | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Maine</b>                         |                            |                      |                         |                          |                      |                         |                          |
| Maine Public Service Co .....        | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Maryland</b>                      |                            |                      |                         |                          |                      |                         |                          |
| Potomac Edison Co .....              | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Massachusetts</b>                 |                            |                      |                         |                          |                      |                         |                          |
| New England Power Co .....           | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Michigan</b>                      |                            |                      |                         |                          |                      |                         |                          |
| Detroit Edison Co .....              | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| Upper Peninsula Power Co .....       | —                          | —                    | 1,480                   | 34,290                   | -634,056             | —                       | —                        |
| <b>Minnesota</b>                     |                            |                      |                         |                          |                      |                         |                          |
| Northern States Power Co .....       | 78                         | —                    | —                       | —                        | —                    | 11,047                  | 32,913                   |
| <b>Missouri</b>                      |                            |                      |                         |                          |                      |                         |                          |
| Empire District Electric Co .....    | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| Kansas City Power & Light Co .....   | —                          | —                    | —                       | —                        | —                    | —                       | 2,228                    |
| UtiliCorp United Inc .....           | —                          | —                    | —                       | 2,328                    | —                    | 49,114                  | 49,249                   |
| <b>Montana</b>                       |                            |                      |                         |                          |                      |                         |                          |
| Montana Power Co .....               | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>New Mexico</b>                    |                            |                      |                         |                          |                      |                         |                          |
| Public Service Co of NM .....        | 11,731                     | —                    | 10,702                  | 15,224                   | —                    | 16,038                  | 11,923                   |
| <b>New York</b>                      |                            |                      |                         |                          |                      |                         |                          |
| Central Hudson Gas & Elec Corp ..... | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| Consolidated Edison Co-NY Inc .....  | 314,349                    | 5,841,876            | —                       | —                        | —                    | —                       | —                        |
| New York State Elec & Gas Corp ..... | 235,425                    | 2,727,845            | —                       | —                        | —                    | —                       | —                        |
| <b>North Carolina</b>                |                            |                      |                         |                          |                      |                         |                          |
| Duke Power Co .....                  | —                          | —                    | 2,879,972               | 2,578,714                | 2,853,568            | 3,432,913               | 2,906,592                |
| <b>North Dakota</b>                  |                            |                      |                         |                          |                      |                         |                          |
| MDU Resources Group Inc .....        | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Ohio</b>                          |                            |                      |                         |                          |                      |                         |                          |
| Cincinnati Gas & Electric Co .....   | —                          | —                    | 35,149                  | 37,052                   | —                    | 124,500                 | 151,363                  |
| Cleveland Electric Illum Co .....    | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| Dayton Power & Light Co .....        | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| Ohio Edison Co .....                 | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| Ohio Power Co .....                  | —                          | —                    | 22,853                  | 21,642                   | —                    | —                       | —                        |
| Toledo Edison Co .....               | —                          | —                    | —                       | —                        | —                    | —                       | —                        |

See notes and footnotes at end of table.

**Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                     | Cooperative          | Other <sup>1</sup>      |                          |                      | Total                   |                          |                      |
|-------------------------------------|----------------------|-------------------------|--------------------------|----------------------|-------------------------|--------------------------|----------------------|
|                                     | Settlement (dollars) | Received (thousand kWh) | Delivered (thousand kWh) | Settlement (dollars) | Received (thousand kWh) | Delivered (thousand kWh) | Settlement (dollars) |
| <b>Alabama</b>                      |                      |                         |                          |                      |                         |                          |                      |
| Alabama Power Co .....              | —                    | —                       | —                        | —                    | 1,641                   | 53                       | —                    |
| <b>Arizona</b>                      |                      |                         |                          |                      |                         |                          |                      |
| Arizona Public Service Co.....      | —                    | —                       | —                        | —                    | 12,687                  | 23,454                   | —                    |
| Tucson Electric Power Co.....       | —                    | —                       | —                        | —                    | 138,607                 | 122,874                  | 1,260,000            |
| <b>Arkansas</b>                     |                      |                         |                          |                      |                         |                          |                      |
| Entergy Arkansas Inc.....           | —                    | 216,830                 | 204,530                  | —                    | —                       | —                        | —                    |
| <b>California</b>                   |                      |                         |                          |                      |                         |                          |                      |
| Pacific Gas & Electric Co.....      | —                    | 393,740                 | 151,125                  | 6,410,845            | 2,449,349               | 2,633,990                | 29,213,572           |
| San Diego Gas & Electric Co.....    | —                    | —                       | —                        | —                    | 332,017                 | 257,757                  | 2,356,915            |
| Southern California Edison Co.....  | —                    | —                       | —                        | —                    | 281,901                 | 483,645                  | —                    |
| <b>Colorado</b>                     |                      |                         |                          |                      |                         |                          |                      |
| Public Service Co of Colorado.....  | —                    | —                       | —                        | —                    | -100,733                | 19,463                   | —                    |
| <b>Connecticut</b>                  |                      |                         |                          |                      |                         |                          |                      |
| Citizens Utilities Co.....          | —                    | —                       | —                        | —                    | 92,199                  | 33,849                   | 977,123              |
| United Illuminating Co.....         | —                    | 21,295                  | —                        | 1,017,392            | 350,665                 | —                        | 11,723,232           |
| <b>Florida</b>                      |                      |                         |                          |                      |                         |                          |                      |
| Florida Power & Light Co.....       | —                    | —                       | —                        | —                    | 4,455                   | 758                      | —                    |
| <b>Georgia</b>                      |                      |                         |                          |                      |                         |                          |                      |
| Georgia Power Co.....               | —                    | 296,597                 | 1,267,685                | —                    | 296,597                 | 1,267,685                | —                    |
| Savannah Electric & Power Co.....   | —                    | 522,837                 | 522,580                  | —                    | 522,837                 | 522,580                  | —                    |
| <b>Hawaii</b>                       |                      |                         |                          |                      |                         |                          |                      |
| Maui Electric Co Ltd.....           | —                    | 4,111                   | 6,648                    | -133,042             | 4,111                   | 6,648                    | -133,042             |
| <b>Idaho</b>                        |                      |                         |                          |                      |                         |                          |                      |
| Idaho Power Co.....                 | —                    | —                       | —                        | —                    | 705,853                 | 728,687                  | —                    |
| <b>Illinois</b>                     |                      |                         |                          |                      |                         |                          |                      |
| Central Illinois Light Co.....      | —                    | —                       | —                        | —                    | 133                     | 13                       | 2,627                |
| Central Illinois Pub Serv Co.....   | -221,415             | —                       | —                        | —                    | 17,698                  | 27,671                   | -223,699             |
| Commonwealth Edison Co.....         | —                    | —                       | —                        | —                    | 60,000                  | —                        | —                    |
| <b>Indiana</b>                      |                      |                         |                          |                      |                         |                          |                      |
| Alcoa Generating Corp.....          | —                    | —                       | —                        | —                    | 9,949                   | 12,301                   | —                    |
| Indianapolis Power & Light Co.....  | —                    | 36                      | —                        | —                    | 649                     | 226                      | —                    |
| PSI Energy Inc.....                 | -24,192              | —                       | —                        | —                    | 3,693                   | 9,174                    | -24,192              |
| <b>Kansas</b>                       |                      |                         |                          |                      |                         |                          |                      |
| Western Resources Inc.....          | —                    | —                       | —                        | —                    | 2,587                   | —                        | 19,399               |
| <b>Kentucky</b>                     |                      |                         |                          |                      |                         |                          |                      |
| Kentucky Utilities Co.....          | —                    | —                       | 38,550                   | —                    | —                       | 100                      | —                    |
| <b>Maine</b>                        |                      |                         |                          |                      |                         |                          |                      |
| Maine Public Service Co.....        | —                    | 741                     | —                        | —                    | 741                     | —                        | —                    |
| <b>Maryland</b>                     |                      |                         |                          |                      |                         |                          |                      |
| Potomac Edison Co.....              | —                    | —                       | —                        | —                    | 340,400                 | 327,413                  | 275,019              |
| <b>Massachusetts</b>                |                      |                         |                          |                      |                         |                          |                      |
| New England Power Co.....           | —                    | —                       | —                        | —                    | 213,209                 | 154,421                  | —                    |
| <b>Michigan</b>                     |                      |                         |                          |                      |                         |                          |                      |
| Detroit Edison Co.....              | —                    | —                       | —                        | —                    | —                       | 39,489                   | —                    |
| Upper Peninsula Power Co.....       | —                    | —                       | 1,730                    | —                    | 1,480                   | 34,290                   | -634,056             |
| <b>Minnesota</b>                    |                      |                         |                          |                      |                         |                          |                      |
| Northern States Power Co.....       | —                    | 143,228                 | 5,812                    | —                    | 209,474                 | 38,803                   | —                    |
| <b>Missouri</b>                     |                      |                         |                          |                      |                         |                          |                      |
| Empire District Electric Co.....    | —                    | —                       | —                        | —                    | 1,280                   | 1,860                    | —                    |
| Kansas City Power & Light Co.....   | -28,964              | —                       | —                        | —                    | —                       | 2,228                    | -28,964              |
| UtiliCorp United Inc.....           | 9,633                | 859,506                 | 854,200                  | 300                  | 89,188                  | 108,070                  | 21,447               |
| <b>Montana</b>                      |                      |                         |                          |                      |                         |                          |                      |
| Montana Power Co.....               | —                    | 3                       | 27                       | —                    | 1,899,927               | 2,308,033                | -1,979,845           |
| <b>New Mexico</b>                   |                      |                         |                          |                      |                         |                          |                      |
| Public Service Co of NM.....        | —                    | -13,775                 | -24,216                  | —                    | 112,202                 | 126,138                  | —                    |
| <b>New York</b>                     |                      |                         |                          |                      |                         |                          |                      |
| Central Hudson Gas & Elec Corp..... | —                    | 34,027                  | 16,709                   | —                    | —                       | —                        | —                    |
| Consolidated Edison Co-NY Inc.....  | —                    | —                       | —                        | —                    | 210,244                 | 314,349                  | 5,841,876            |
| New York State Elec & Gas Corp..... | —                    | —                       | —                        | —                    | 157,496                 | 235,425                  | 2,727,845            |
| <b>North Carolina</b>               |                      |                         |                          |                      |                         |                          |                      |
| Duke Power Co.....                  | 3,815,686            | 772,837                 | 686,651                  | —                    | 7,020,834               | 6,099,077                | 6,669,254            |
| <b>North Dakota</b>                 |                      |                         |                          |                      |                         |                          |                      |
| MDU Resources Group Inc.....        | —                    | —                       | —                        | —                    | 40,207                  | 33,590                   | 102,695              |
| <b>Ohio</b>                         |                      |                         |                          |                      |                         |                          |                      |
| Cincinnati Gas & Electric Co.....   | —                    | 16,981                  | 1,185                    | —                    | 176,630                 | 189,600                  | —                    |
| Cleveland Electric Illum Co.....    | —                    | —                       | —                        | —                    | 9,340                   | 16,548                   | -129,744             |
| Dayton Power & Light Co.....        | —                    | —                       | —                        | —                    | 55                      | 1,208                    | -29,238              |
| Ohio Edison Co.....                 | —                    | —                       | —                        | —                    | 29,632                  | —                        | —                    |
| Ohio Power Co.....                  | —                    | —                       | —                        | —                    | 71,712                  | 23,259                   | —                    |
| Toledo Edison Co.....               | —                    | —                       | —                        | —                    | 1,413                   | 4,244                    | 7,429                |

See notes and footnotes at end of table.

**Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                    | Investor-Owned          |                          |                      | Federal                 |                          |                      | State and Other Government |
|------------------------------------|-------------------------|--------------------------|----------------------|-------------------------|--------------------------|----------------------|----------------------------|
|                                    | Received (thousand kWh) | Delivered (thousand kWh) | Settlement (dollars) | Received (thousand kWh) | Delivered (thousand kWh) | Settlement (dollars) | Received (thousand kWh)    |
| <b>Oklahoma</b>                    |                         |                          |                      |                         |                          |                      |                            |
| Public Service Co of Oklahoma..... | 30,335                  | 30,335                   | —                    | 112,134                 | 114,503                  | —                    | 646,134                    |
| <b>Oregon</b>                      |                         |                          |                      |                         |                          |                      |                            |
| PacifiCorp.....                    | 649,862                 | 509,258                  | 124,801              | 12,666,633              | 12,508,408               | -32,080,684          | 315,271                    |
| Portland General Electric Co.....  | 419,480                 | 495,471                  | -1,125               | 313,452                 | 301,826                  | 217,008              | 54,492                     |
| <b>Pennsylvania</b>                |                         |                          |                      |                         |                          |                      |                            |
| Duquesne Light Co.....             | 92,289                  | 101,378                  | —                    | —                       | —                        | —                    | —                          |
| West Penn Power Co.....            | 143,019                 | 136,599                  | 132,192              | —                       | —                        | —                    | —                          |
| <b>South Dakota</b>                |                         |                          |                      |                         |                          |                      |                            |
| Black Hills Corp.....              | 9,286                   | 25,987                   | -120,348             | 10,586                  | 10,935                   | —                    | —                          |
| <b>Texas</b>                       |                         |                          |                      |                         |                          |                      |                            |
| Central Power & Light Co.....      | 2,375                   | 9,751                    | —                    | —                       | —                        | —                    | 22,288                     |
| El Paso Electric Co.....           | 17,954                  | 29,017                   | —                    | —                       | —                        | —                    | 2,808                      |
| Houston Lighting & Power Co.....   | 4,688,103               | 9,773,279                | —                    | —                       | —                        | —                    | 1,182,602                  |
| Texas Utilities Electric Co.....   | 12,824,841              | 6,724,285                | 83,340               | —                       | —                        | —                    | 305,877                    |
| West Texas Utilities Co.....       | 2,375                   | 9,751                    | —                    | —                       | —                        | —                    | —                          |
| <b>Virginia</b>                    |                         |                          |                      |                         |                          |                      |                            |
| Virginia Electric & Power Co.....  | 24,888                  | 24,195                   | —                    | 21,266                  | 15,118                   | —                    | 243,864                    |
| <b>Washington</b>                  |                         |                          |                      |                         |                          |                      |                            |
| Puget Sound Power & Light Co.....  | 519,509                 | 523,183                  | -34,355              | 81,859                  | 20,977                   | 799,287              | 390,597                    |
| Washington Water Power Co.....     | 671,008                 | 625,138                  | 11,705               | 158,914                 | 158,612                  | 27,594               | 73,831                     |
| <b>West Virginia</b>               |                         |                          |                      |                         |                          |                      |                            |
| Monongahela Power Co.....          | 77,600                  | 75,168                   | -6,473               | —                       | —                        | —                    | —                          |
| <b>Wisconsin</b>                   |                         |                          |                      |                         |                          |                      |                            |
| Consolidated Water Power Co.....   | 294                     | —                        | —                    | —                       | —                        | —                    | —                          |
| Wisconsin Electric Power Co.....   | 800                     | 800                      | —                    | —                       | —                        | —                    | —                          |
| Wisconsin Power & Light Co.....    | —                       | 353                      | —                    | —                       | —                        | —                    | —                          |
| Wisconsin Public Service Corp..... | 4,407                   | 4,058                    | 6,980                | —                       | —                        | —                    | —                          |

See notes and footnotes at end of table.

**Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                    | State and Other Government |                      | Municipal               |                          |                      | Cooperative             |                          |
|------------------------------------|----------------------------|----------------------|-------------------------|--------------------------|----------------------|-------------------------|--------------------------|
|                                    | Delivered (thousand kWh)   | Settlement (dollars) | Received (thousand kWh) | Delivered (thousand kWh) | Settlement (dollars) | Received (thousand kWh) | Delivered (thousand kWh) |
| <b>Oklahoma</b>                    |                            |                      |                         |                          |                      |                         |                          |
| Public Service Co of Oklahoma..... | 645,065                    | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Oregon</b>                      |                            |                      |                         |                          |                      |                         |                          |
| PacifiCorp.....                    | 355,758                    | -226,385             | 11,757                  | 9,858                    | 66,428               | 117,507                 | 67,258                   |
| Portland General Electric Co.....  | 92,082                     | 1,992                | 30,018                  | 34,467                   | —                    | —                       | —                        |
| <b>Pennsylvania</b>                |                            |                      |                         |                          |                      |                         |                          |
| Duquesne Light Co.....             | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| West Penn Power Co.....            | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>South Dakota</b>                |                            |                      |                         |                          |                      |                         |                          |
| Black Hills Corp.....              | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Texas</b>                       |                            |                      |                         |                          |                      |                         |                          |
| Central Power & Light Co.....      | 25,605                     | —                    | —                       | —                        | —                    | 77,210                  | 81,411                   |
| El Paso Electric Co.....           | 12,492                     | —                    | —                       | —                        | —                    | —                       | —                        |
| Houston Lighting & Power Co.....   | 408,067                    | —                    | 3,183                   | 9,425                    | —                    | —                       | 145,366                  |
| Texas Utilities Electric Co.....   | 1,851,185                  | —                    | —                       | —                        | —                    | —                       | —                        |
| West Texas Utilities Co.....       | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Virginia</b>                    |                            |                      |                         |                          |                      |                         |                          |
| Virginia Electric & Power Co.....  | 249,484                    | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Washington</b>                  |                            |                      |                         |                          |                      |                         |                          |
| Puget Sound Power & Light Co.....  | 388,100                    | -403,832             | 135,216                 | 135,216                  | -371,547             | —                       | —                        |
| Washington Water Power Co.....     | 74,049                     | -1,570               | 1,584                   | —                        | 20,434               | —                       | —                        |
| <b>West Virginia</b>               |                            |                      |                         |                          |                      |                         |                          |
| Monongahela Power Co.....          | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| <b>Wisconsin</b>                   |                            |                      |                         |                          |                      |                         |                          |
| Consolidated Water Power Co.....   | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| Wisconsin Electric Power Co.....   | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| Wisconsin Power & Light Co.....    | —                          | —                    | —                       | —                        | —                    | —                       | —                        |
| Wisconsin Public Service Corp..... | —                          | —                    | —                       | —                        | —                    | —                       | —                        |

See notes and footnotes at end of table.

**Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                    | Cooperative          | Other <sup>1</sup>      |                          |                      | Total                   |                          |                      |
|------------------------------------|----------------------|-------------------------|--------------------------|----------------------|-------------------------|--------------------------|----------------------|
|                                    | Settlement (dollars) | Received (thousand kWh) | Delivered (thousand kWh) | Settlement (dollars) | Received (thousand kWh) | Delivered (thousand kWh) | Settlement (dollars) |
| <b>Oklahoma</b>                    |                      |                         |                          |                      |                         |                          |                      |
| Public Service Co of Oklahoma..... | —                    | —                       | —                        | —                    | 788,603                 | 789,903                  | —                    |
| <b>Oregon</b>                      |                      |                         |                          |                      |                         |                          |                      |
| PacifiCorp.....                    | 265,639              | 90,733                  | 224,239                  | -33,368              | 13,851,763              | 13,674,779               | -31,883,569          |
| Portland General Electric Co.....  | —                    | —                       | 751                      | —                    | 817,442                 | 923,846                  | 217,875              |
| <b>Pennsylvania</b>                |                      |                         |                          |                      |                         |                          |                      |
| Duquesne Light Co.....             | —                    | 21,945                  | 21,604                   | —                    | 110,582                 | 120,273                  | —                    |
| West Penn Power Co.....            | —                    | —                       | —                        | —                    | 143,019                 | 136,599                  | 132,192              |
| <b>South Dakota</b>                |                      |                         |                          |                      |                         |                          |                      |
| Black Hills Corp.....              | —                    | —                       | —                        | —                    | 19,872                  | 36,922                   | -120,348             |
| <b>Texas</b>                       |                      |                         |                          |                      |                         |                          |                      |
| Central Power & Light Co.....      | 62,320               | —                       | —                        | —                    | 101,873                 | 116,767                  | 62,320               |
| El Paso Electric Co.....           | —                    | —                       | —                        | —                    | 20,762                  | 41,509                   | —                    |
| Houston Lighting & Power Co.....   | —                    | 5,626,887               | 1,163,152                | —                    | 11,500,775              | 11,499,289               | —                    |
| Texas Utilities Electric Co.....   | —                    | 8,824,988               | 13,378,134               | —                    | 21,955,706              | 21,953,604               | 83,340               |
| West Texas Utilities Co.....       | —                    | —                       | —                        | —                    | 2,375                   | 9,751                    | —                    |
| <b>Virginia</b>                    |                      |                         |                          |                      |                         |                          |                      |
| Virginia Electric & Power Co.....  | —                    | 226,200                 | 234,900                  | -1,027,064           | 516,218                 | 523,697                  | -1,027,064           |
| <b>Washington</b>                  |                      |                         |                          |                      |                         |                          |                      |
| Puget Sound Power & Light Co.....  | —                    | —                       | —                        | —                    | 1,127,181               | 1,067,476                | -10,447              |
| Washington Water Power Co.....     | —                    | 213,731                 | 207,795                  | —                    | 1,116,132               | 1,065,594                | 58,163               |
| <b>West Virginia</b>               |                      |                         |                          |                      |                         |                          |                      |
| Monongahela Power Co.....          | —                    | —                       | —                        | —                    | 77,600                  | 75,168                   | -6,473               |
| <b>Wisconsin</b>                   |                      |                         |                          |                      |                         |                          |                      |
| Consolidated Water Power Co.....   | —                    | —                       | —                        | —                    | 294                     | —                        | —                    |
| Wisconsin Electric Power Co.....   | —                    | —                       | —                        | —                    | 800                     | 800                      | —                    |
| Wisconsin Power & Light Co.....    | —                    | 33,973                  | 71,200                   | —                    | 33,973                  | 71,553                   | —                    |
| Wisconsin Public Service Corp..... | —                    | —                       | —                        | —                    | 4,407                   | 4,058                    | 6,980                |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The terms of settlement may include transferring and/or exchanging quantities of electricity with no dollar value assigned. •For identification purposes, the utilities are listed in the State in which the corporate office is located. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

**Table 22. Electricity Purchases by Investor-Owned Utilities Not Reported to the Federal Energy Regulatory Commission, by State, 1996**

| State / Utility                     | Purchases<br>(Thousand Kilowatthours) |         |                            |           |             |                    | Total   |
|-------------------------------------|---------------------------------------|---------|----------------------------|-----------|-------------|--------------------|---------|
|                                     | Investor-Owned                        | Federal | State and Other Government | Municipal | Cooperative | Other <sup>1</sup> |         |
| <b>Alaska</b>                       |                                       |         |                            |           |             |                    |         |
| Haines Light & Power Co Inc .....   | —                                     | —       | —                          | 312       | —           | 312                | 624     |
| Napakiak Ircinaq Power Co .....     | 634                                   | —       | —                          | —         | —           | —                  | 634     |
| <b>Arizona</b>                      |                                       |         |                            |           |             |                    |         |
| Ajo Improvement Co .....            | —                                     | —       | —                          | —         | —           | 9,360              | 9,360   |
| Morenci Water & Electric Co .....   | —                                     | —       | —                          | —         | 28,136      | —                  | 28,136  |
| <b>Hawaii</b>                       |                                       |         |                            |           |             |                    |         |
| Hawaii Electric Light Co Inc .....  | —                                     | —       | —                          | —         | —           | 371,657            | 371,657 |
| <b>Montana</b>                      |                                       |         |                            |           |             |                    |         |
| Champion International Corp .....   | 2,288                                 | —       | —                          | —         | —           | —                  | 2,288   |
| <b>Rhode Island</b>                 |                                       |         |                            |           |             |                    |         |
| Block Island Power Co .....         | —                                     | —       | —                          | —         | —           | 10                 | 10      |
| <b>Utah</b>                         |                                       |         |                            |           |             |                    |         |
| Panaca Power & Light Co .....       | —                                     | —       | 6,218                      | —         | —           | —                  | 6,218   |
| <b>Washington</b>                   |                                       |         |                            |           |             |                    |         |
| Modern Electric Water Company ..... | 216,474                               | —       | —                          | —         | —           | —                  | 216,474 |
| <b>Wisconsin</b>                    |                                       |         |                            |           |             |                    |         |
| Westfield Milling & El Lgt Co ..... | 10,384                                | —       | —                          | —         | —           | —                  | 10,384  |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the utilities are listed in the State in which the corporate office is located. •Totals may not equal sum of components because of independent rounding.

Source: •Energy Information Administration Form EIA-861, "Annual Electric Utility Report," and McGraw-Hill's "Electrical World Directory of Electric Utilities," with verification done by the Survey Management Division.

**Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996**

| State / Utility                      | Investor-Owned                             |                   | Federal                                    |                   | State and Other Government                 |                   | Municipal                                  |
|--------------------------------------|--|-------------------|--|-------------------|--|-------------------|--|
|                                      | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> |
| <b>Alabama</b>                       |  |                   |  |                   |  |                   |  |
| Alabama Power Co .....               | 156,330                                    | 1,055,073         | 527,407                                    | 6,069,066         | —  | —                 | 253,372                                    |
| <b>Arizona</b>                       |  |                   |  |                   |  |                   |  |
| Arizona Public Service Co.....       | 999,503                                    | 4,006,888         | 31,289                                     | 259,512           | 564,138                                    | 3,591,974         | 17,177                                     |
| Tucson Electric Power Co .....       | 820,168                                    | 1,489,393         | —  | —                 | 220,877                                    | 216,026           | —  |
| <b>Arkansas</b>                      |  |                   |  |                   |  |                   |  |
| Entergy Arkansas Inc .....           | 115,713                                    | 966,858           | 524  | 1,903             | —  | —                 | —  |
| <b>California</b>                    |  |                   |  |                   |  |                   |  |
| Pacific Gas & Electric Co .....      | 82,776                                     | 143,187           | 3,679,252                                  | 15,931,421        | 15,975,471                                 | 19,372,164        | 2,481,263                                  |
| San Diego Gas & Electric Co .....    | 359,485                                    | 1,542,350         | —  | 93,800            | 380  | 152,280           | —  |
| Southern California Edison Co.....   | 1,816,122                                  | 9,469,381         | 1,009,979                                  | 4,430,829         | 4,766,907                                  | 5,539,717         | 7,911,508                                  |
| <b>Colorado</b>                      |  |                   |  |                   |  |                   |  |
| Public Service Co of Colorado.....   | —  | 2,184,401         | 327,130                                    | 3,262,434         | 38,758                                     | 288,702           | —  |
| <b>Connecticut</b>                   |  |                   |  |                   |  |                   |  |
| Citizens Utilities Co.....           | 104,489                                    | 809,500           | —  | —                 | —  | —                 | 47,187                                     |
| Connecticut Light & Power Co.....    | 1,377,348                                  | 11,229,827        | —  | —                 | 144,439                                    | 408,875           | 1,132,958                                  |
| United Illuminating Co .....         | —  | —                 | —  | —                 | —  | —                 | —  |
| <b>Delaware</b>                      |  |                   |  |                   |  |                   |  |
| Delmarva Power & Light Co.....       | 2,308,503                                  | 330,709           | —  | —                 | —  | —                 | —  |
| <b>Florida</b>                       |  |                   |  |                   |  |                   |  |
| Florida Power & Light Co.....        | 9,451                                      | 51,741            | —  | —                 | 313,557                                    | 1,091,286         | 2,672,442                                  |
| Florida Power Corp.....              | 24,393                                     | 371,037           | 190,971                                    | 756,190           | —  | —                 | 440,672                                    |
| Gulf Power Co .....                  | 54,040                                     | 127,464           | 55,655                                     | 250,915           | 6,481                                      | 1,722             | 16,949                                     |
| Tampa Electric Co .....              | —  | —                 | —  | —                 | —  | —                 | —  |
| <b>Georgia</b>                       |  |                   |  |                   |  |                   |  |
| Georgia Power Co.....                | —  | —                 | 1,704,416                                  | 468,607           | —  | —                 | —  |
| Savannah Electric & Power Co.....    | —  | —                 | —  | —                 | —  | —                 | —  |
| <b>Hawaii</b>                        |  |                   |  |                   |  |                   |  |
| Maui Electric Co Ltd .....           | —  | —                 | —  | —                 | —  | —                 | —  |
| <b>Idaho</b>                         |  |                   |  |                   |  |                   |  |
| Idaho Power Co.....                  | 1,720,246                                  | 3,517,645         | 2,093,977                                  | 7,144,555         | 96   | 240               | 137,466                                    |
| <b>Illinois</b>                      |  |                   |  |                   |  |                   |  |
| Central Illinois Light Co.....       | —  | —                 | —  | —                 | —  | —                 | —  |
| Central Illinois Pub Serv Co.....    | 2,480                                      | 3,604             | —  | —                 | —  | —                 | 327,126                                    |
| Commonwealth Edison Co .....         | 186,845                                    | 381,302           | —  | —                 | —  | —                 | 273,445                                    |
| Illinois Power Co .....              | 61,574                                     | 76,908            | —  | —                 | —  | —                 | 603,731                                    |
| Mt Carmel Public Utility Co .....    | —  | —                 | —  | —                 | —  | —                 | —  |
| <b>Indiana</b>                       |  |                   |  |                   |  |                   |  |
| Alcoa Generating Corp .....          | —  | —                 | —  | —                 | —  | —                 | —  |
| Commonwealth Edison Co IN Inc .....  | —  | 294,112           | —  | —                 | —  | —                 | —  |
| Indiana Michigan Power Co.....       | 1,714,605                                  | 7,012,195         | —  | —                 | 91,185                                     | 313,059           | 306,506                                    |
| Northern Indiana Pub Serv Co .....   | 77,580                                     | 150,566           | —  | —                 | 81,271                                     | 32,673            | —  |
| PSI Energy Inc .....                 | 2,737,205                                  | 5,704,478         | —  | —                 | 409,791                                    | 247,309           | —  |
| Southern Indiana Gas & Elec Co.....  | —  | —                 | —  | —                 | —  | —                 | 1,044                                      |
| <b>Iowa</b>                          |  |                   |  |                   |  |                   |  |
| Interstate Power Co.....             | 26,154                                     | 77,070            | 334,004                                    | —                 | 197,616                                    | 365,886           | 346,305                                    |
| IES Utilities Inc.....               | 15,655                                     | 51,610            | —  | —                 | —  | —                 | 96,691                                     |
| MidAmerican Energy Co.....           | 1,257,130                                  | 1,335,144         | 542,831                                    | 803,981           | —  | —                 | 825,180                                    |
| <b>Kansas</b>                        |  |                   |  |                   |  |                   |  |
| Kansas Gas & Electric Co.....        | 231,095                                    | 2,130,349         | —  | —                 | 384,836                                    | 476,791           | 258,581                                    |
| Western Resources Inc.....           | 25,291                                     | 39,620            | —  | —                 | 384,836                                    | 476,791           | 344,989                                    |
| <b>Kentucky</b>                      |  |                   |  |                   |  |                   |  |
| Kentucky Power Co .....              | 636,313                                    | 2,570,291         | —  | —                 | 33,064                                     | 113,529           | 106,375                                    |
| Kentucky Utilities Co.....           | 280  | 700               | 275,828                                    | 497,287           | —  | —                 | —  |
| Louisville Gas & Electric Co .....   | 14,528                                     | 21,826            | —  | —                 | —  | —                 | —  |
| <b>Louisiana</b>                     |  |                   |  |                   |  |                   |  |
| Central Louisiana Elec Co Inc.....   | —  | 110,293           | —  | —                 | 800,957                                    | 1,660,622         | 1,325,980                                  |
| Southwestern Electric Power Co ..... | 29,456                                     | 48,187            | —  | —                 | 928  | 1,777             | 10,854                                     |
| <b>Maine</b>                         |  |                   |  |                   |  |                   |  |
| Bangor Hydro-Electric Co .....       | —  | —                 | —  | —                 | —  | —                 | —  |
| Central Maine Power Co .....         | 3,219,954                                  | 1,735,248         | —  | —                 | —  | —                 | —  |
| Maine Electric Power Co Inc .....    | 2,894,805                                  | 2,731,228         | —  | —                 | —  | —                 | 1,747                                      |
| Maine Public Service Co.....         | 172,424                                    | 1,517,228         | —  | —                 | —  | —                 | 104,981                                    |
| <b>Maryland</b>                      |  |                   |  |                   |  |                   |  |
| Baltimore Gas & Electric Co.....     | —  | 140,719           | —  | —                 | —  | —                 | —  |
| Potomac Edison Co.....               | 2,781,932                                  | 7,392,296         | —  | —                 | —  | —                 | 117,782                                    |
| <b>Massachusetts</b>                 |  |                   |  |                   |  |                   |  |
| Boston Edison Co.....                | 3,020,164                                  | 5,199,020         | —  | —                 | 118,226                                    | 338,758           | 775,332                                    |
| Cambridge Electric Light Co.....     | —  | —                 | —  | —                 | —  | —                 | 14,611                                     |

See notes and footnotes at end of table.

**Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                      | Municipal         | Cooperative                                |                   | Other <sup>1</sup>                         |                   | Total                                      |                   |
|--------------------------------------|-------------------|--|-------------------|--|-------------------|--|-------------------|
|                                      | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) |
| <b>Alabama</b>                       |                   |  |                   |  |                   |  |                   |
| Alabama Power Co .....               | 342,983           | 2,107,438                                  | 9,507,178         | 412,809                                    | 1,118,764         | 3,457,356                                  | 18,093,064        |
| <b>Arizona</b>                       |                   |  |                   |  |                   |  |                   |
| Arizona Public Service Co .....      | 145,332           | 47,802                                     | 1,231,146         | 401,824                                    | 997,046           | 2,061,733                                  | 10,231,898        |
| Tucson Electric Power Co .....       | —                 | 721,451                                    | 926,175           | 27,353                                     | 111,501           | 1,789,849                                  | 2,743,095         |
| <b>Arkansas</b>                      |                   |  |                   |  |                   |  |                   |
| Entergy Arkansas Inc .....           | 356,391           | 30,064                                     | 430,344           | 115,807                                    | 15,293,608        | 262,108                                    | 17,049,104        |
| <b>California</b>                    |                   |  |                   |  |                   |  |                   |
| Pacific Gas & Electric Co .....      | 14,482,659        | —  | —                 | 1,017,612                                  | 2,645,882         | 23,236,374                                 | 52,575,313        |
| San Diego Gas & Electric Co .....    | 3,512             | —  | —                 | —  | —                 | 359,865                                    | 1,791,942         |
| Southern California Edison Co .....  | 19,960,129        | 39,958                                     | 201,125           | 294,179                                    | 1,289,516         | 15,838,653                                 | 40,890,697        |
| <b>Colorado</b>                      |                   |  |                   |  |                   |  |                   |
| Public Service Co of Colorado .....  | 7,698             | 1,352,173                                  | 1,811,121         | —  | 241,602           | 1,718,061                                  | 7,795,958         |
| <b>Connecticut</b>                   |                   |  |                   |  |                   |  |                   |
| Citizens Utilities Co .....          | 372,394           | 1,665                                      | 22,046            | 91,033                                     | 257,870           | 244,374                                    | 1,461,810         |
| Connecticut Light & Power Co .....   | 4,305,983         | —  | —                 | 2,121,124                                  | 5,870,288         | 4,775,869                                  | 21,814,973        |
| United Illuminating Co .....         | —                 | —  | —                 | 39,888                                     | 449,950           | 39,888                                     | 449,950           |
| <b>Delaware</b>                      |                   |  |                   |  |                   |  |                   |
| Delmarva Power & Light Co .....      | —                 | 1,076,778                                  | 3,551,400         | 210,704                                    | 983,745           | 3,595,985                                  | 4,865,854         |
| <b>Florida</b>                       |                   |  |                   |  |                   |  |                   |
| Florida Power & Light Co .....       | 7,743,673         | 3,404,049                                  | 8,958,450         | 228,141                                    | 703,598           | 6,627,640                                  | 18,548,748        |
| Florida Power Corp .....             | 4,613,073         | 16,373                                     | 9,293,090         | 56,682                                     | 2,327,308         | 729,091                                    | 17,360,698        |
| Gulf Power Co .....                  | 107,645           | 316,644                                    | 1,261,041         | 83,574                                     | 380,392           | 533,343                                    | 2,129,179         |
| Tampa Electric Co .....              | —                 | —  | —                 | 1,213,239                                  | 3,272,235         | 1,213,239                                  | 3,272,235         |
| <b>Georgia</b>                       |                   |  |                   |  |                   |  |                   |
| Georgia Power Co .....               | —                 | —  | —                 | —  | —                 | 1,704,416                                  | 468,607           |
| Savannah Electric & Power Co .....   | —                 | —  | —                 | 30,329                                     | 112,020           | 30,329                                     | 112,020           |
| <b>Hawaii</b>                        |                   |  |                   |  |                   |  |                   |
| Maui Electric Co Ltd .....           | —                 | —  | —                 | —  | —                 | —  | —                 |
| <b>Idaho</b>                         |                   |  |                   |  |                   |  |                   |
| Idaho Power Co .....                 | 1,116,685         | —  | —                 | 8,147                                      | 15,451            | 3,959,932                                  | 11,794,576        |
| <b>Illinois</b>                      |                   |  |                   |  |                   |  |                   |
| Central Illinois Light Co .....      | —                 | 23,419                                     | 68,988            | 127,400                                    | 1,136,001         | 150,819                                    | 1,204,989         |
| Central Illinois Pub Serv Co .....   | 5,201,129         | 1,225,910                                  | 10,094,557        | 4,200                                      | 6,420             | 1,559,716                                  | 15,305,710        |
| Commonwealth Edison Co .....         | 1,627,331         | —  | —                 | 965,578                                    | 1,525,499         | 1,425,868                                  | 3,534,132         |
| Illinois Power Co .....              | 2,664,202         | —  | —                 | 262,679                                    | 972,479           | 927,984                                    | 3,713,589         |
| Mt Carmel Public Utility Co .....    | —                 | —  | —                 | —  | —                 | —  | —                 |
| <b>Indiana</b>                       |                   |  |                   |  |                   |  |                   |
| Alcoa Generating Corp .....          | —                 | —  | —                 | —  | —                 | —  | —                 |
| Commonwealth Edison Co IN Inc .....  | —                 | —  | —                 | —  | —                 | —  | 294,112           |
| Indiana Michigan Power Co .....      | 1,070,270         | 174,101                                    | 1,597,017         | 600,258                                    | 2,039,570         | 2,886,655                                  | 12,032,111        |
| Northern Indiana Pub Serv Co .....   | —                 | 1,053,287                                  | 433,531           | 74,138                                     | 181,575           | 1,286,276                                  | 798,345           |
| PSI Energy Inc .....                 | —                 | 3,226,761                                  | 4,638,047         | 241,221                                    | 409,701           | 6,614,978                                  | 10,999,535        |
| Southern Indiana Gas & Elec Co ..... | 157               | 39,174                                     | 78,098            | 42,677                                     | 61,954            | 82,895                                     | 140,209           |
| <b>Iowa</b>                          |                   |  |                   |  |                   |  |                   |
| Interstate Power Co .....            | 1,419,838         | 545,251                                    | 1,646,100         | —  | 410,533           | 1,449,330                                  | 3,919,427         |
| IES Utilities Inc .....              | 82,800            | 88,471                                     | 121,050           | 25,834                                     | 503,178           | 226,651                                    | 758,638           |
| MidAmerican Energy Co .....          | 1,596,154         | 1,313,448                                  | 986,206           | 205,574                                    | 1,199,944         | 4,144,163                                  | 5,921,429         |
| <b>Kansas</b>                        |                   |  |                   |  |                   |  |                   |
| Kansas Gas & Electric Co .....       | 423,384           | 458,032                                    | 2,936,681         | 201,509                                    | 294,233           | 1,534,053                                  | 6,261,438         |
| Western Resources Inc .....          | 285,785           | 827,252                                    | 5,193,827         | 201,509                                    | 294,233           | 1,783,877                                  | 6,290,256         |
| <b>Kentucky</b>                      |                   |  |                   |  |                   |  |                   |
| Kentucky Power Co .....              | 308,981           | 116,609                                    | 583,849           | 221,432                                    | 754,962           | 1,113,793                                  | 4,331,612         |
| Kentucky Utilities Co .....          | —                 | 1,561,339                                  | 4,656,824         | 48,263                                     | 111,195           | 1,885,710                                  | 5,266,006         |
| Louisville Gas & Electric Co .....   | —                 | 251,529                                    | 282,249           | 265,899                                    | 379,931           | 531,956                                    | 684,006           |
| <b>Louisiana</b>                     |                   |  |                   |  |                   |  |                   |
| Central Louisiana Elec Co Inc .....  | 3,349,180         | 1,136,161                                  | 6,033,538         | —  | 2,845             | 3,263,098                                  | 11,156,478        |
| Southwestern Electric Power Co ..... | 105,820           | 2,244,378                                  | 6,276,292         | 625,275                                    | 1,445,815         | 2,910,891                                  | 7,877,891         |
| <b>Maine</b>                         |                   |  |                   |  |                   |  |                   |
| Bangor Hydro-Electric Co .....       | —                 | —  | —                 | —  | —                 | —  | —                 |
| Central Maine Power Co .....         | —                 | —  | —                 | 344,367                                    | 1,688,430         | 3,564,321                                  | 3,423,678         |
| Maine Electric Power Co Inc .....    | 59,310            | —  | —                 | 123,038                                    | 558,468           | 3,019,590                                  | 3,349,006         |
| Maine Public Service Co .....        | 391,080           | —  | —                 | —  | —                 | 277,405                                    | 1,908,308         |
| <b>Maryland</b>                      |                   |  |                   |  |                   |  |                   |
| Baltimore Gas & Electric Co .....    | —                 | —  | —                 | —  | 5,601,817         | —  | 5,742,536         |
| Potomac Edison Co .....              | 843,429           | —  | —                 | 1,530,280                                  | 3,257,144         | 4,429,994                                  | 11,492,869        |
| <b>Massachusetts</b>                 |                   |  |                   |  |                   |  |                   |
| Boston Edison Co .....               | 2,123,657         | —  | —                 | 1,693,582                                  | 4,254,578         | 5,607,304                                  | 11,916,013        |
| Cambridge Electric Light Co .....    | 174,187           | —  | —                 | 18,749                                     | 262,646           | 33,360                                     | 436,833           |

See notes and footnotes at end of table.



**Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                     | Investor-Owned                             |                   | Federal                                    |                   | State and Other Government                 |                   | Municipal                                  |
|-------------------------------------|--|-------------------|--|-------------------|--|-------------------|--|
|                                     | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> |
| <b>Massachusetts</b>                |  |                   |  |                   |  |                   |  |
| Commonwealth Electric Co.....       | —  | 821,585           | —  | —                 | —  | —                 | —  |
| Fitchburg Gas & Elec Light Co.....  | —  | —                 | —  | —                 | —  | —                 | —  |
| Holyoke Water Power Co.....         | 192  | 90,969            | —  | —                 | —  | —                 | —  |
| Montaup Electric Co.....            | 90,307                                     | 140,357           | —  | —                 | 56,680                                     | 248,874           | 81,965                                     |
| New England Hydro-Tran Elec Co..... | —  | —                 | —  | —                 | —  | —                 | —  |
| New England Power Co.....           | 1,653,000                                  | 11,797,920        | —  | —                 | 164,171                                    | 552,353           | 3,249,177                                  |
| Western Massachusetts Elec Co.....  | 320,286                                    | 1,904,520         | —  | —                 | 33,881                                     | 279,828           | 265,756                                    |
| <b>Michigan</b>                     |  |                   |  |                   |  |                   |  |
| Consumers Power Co.....             | 197,428                                    | 637,890           | —  | —                 | —  | —                 | 31,222                                     |
| Detroit Edison Co.....              | 100,465                                    | 863,256           | —  | —                 | —  | —                 | 7,449                                      |
| <b>Minnesota</b>                    |  |                   |  |                   |  |                   |  |
| Minnesota Power & Light Co.....     | —  | —                 | —  | —                 | —  | —                 | 95,526                                     |
| Northern States Power Co.....       | 2,122,560                                  | 3,463,119         | —  | —                 | 990,066                                    | 3,060,969         | 828,532                                    |
| Otter Tail Power Co.....            | 4,611                                      | 23,218            | —  | —                 | —  | —                 | 7,102                                      |
| <b>Mississippi</b>                  |  |                   |  |                   |  |                   |  |
| Mississippi Power Co.....           | 1,248                                      | 1,350,185         | 113,702                                    | 1,195,607         | —  | —                 | —  |
| <b>Missouri</b>                     |  |                   |  |                   |  |                   |  |
| Empire District Electric Co.....    | 520,201                                    | 420,855           | —  | —                 | —  | —                 | —  |
| Kansas City Power & Light Co.....   | 1,007,395                                  | 2,377,393         | —  | —                 | 673  | 677               | 611,429                                    |
| St Joseph Light & Power Co.....     | 199,831                                    | 103,465           | —  | —                 | —  | —                 | —  |
| Union Electric Co.....              | 5,400                                      | 17,192            | —  | -6,035            | —  | —                 | 295,541                                    |
| UtiliCorp United Inc.....           | 33,221                                     | 124,329           | 8,406                                      | 6,571             | 29,002                                     | 43,786            | 43,521                                     |
| <b>Montana</b>                      |  |                   |  |                   |  |                   |  |
| Montana Power Co.....               | 180,631                                    | 444,097           | 1,137,635                                  | 6,207,153         | —  | —                 | —  |
| <b>Nevada</b>                       |  |                   |  |                   |  |                   |  |
| Nevada Power Co.....                | 8,987                                      | 21,813            | —  | —                 | 492,196                                    | 2,114,860         | 23,571                                     |
| Sierra Pacific Power Co.....        | 79,953                                     | 130,547           | 678,899                                    | 5,011,471         | 2,417                                      | 4,158             | —  |
| <b>New Hampshire</b>                |  |                   |  |                   |  |                   |  |
| Concord Electric Co.....            | —  | —                 | —  | —                 | —  | —                 | —  |
| Connecticut Valley Elec Co Inc..... | —  | —                 | —  | —                 | —  | —                 | 19,901                                     |
| Exeter & Hampton Electric Co.....   | —  | —                 | —  | —                 | —  | —                 | —  |
| Great Bay Power Corp.....           | —  | —                 | —  | —                 | —  | —                 | —  |
| New England Elec Transm'n Corp..... | —  | —                 | —  | —                 | —  | —                 | —  |
| New England Hydro-Trans Corp.....   | —  | —                 | —  | —                 | —  | —                 | —  |
| North Atlantic Energy Corp.....     | —  | 2,603,573         | —  | —                 | —  | —                 | —  |
| Public Service Co of NH.....        | 266,340                                    | 5,907,607         | —  | —                 | 7,299                                      | 17,536            | 90,342                                     |
| UNTIL Power Corp.....               | —  | —                 | —  | —                 | —  | —                 | —  |
| <b>New Jersey</b>                   |  |                   |  |                   |  |                   |  |
| Atlantic City Electric Co.....      | —  | —                 | —  | —                 | —  | —                 | 21,703                                     |
| Jersey Central Power&Light Co.....  | 683,537                                    | 1,415,033         | —  | —                 | —  | —                 | 316,054                                    |
| Public Service Electric&Gas Co..... | 2,957,766                                  | 6,404,608         | —  | —                 | —  | —                 | 123,681                                    |
| Rockland Electric Co.....           | —  | —                 | —  | —                 | —  | —                 | —  |
| <b>New Mexico</b>                   |  |                   |  |                   |  |                   |  |
| Public Service Co of NM.....        | 1,160,054                                  | 2,819,130         | 841,764                                    | 2,720,938         | 706,382                                    | 772,759           | 1,082,230                                  |
| <b>New York</b>                     |  |                   |  |                   |  |                   |  |
| Central Hudson Gas & Elec Corp..... | 1,414,201                                  | 786,769           | —  | —                 | —  | 281,186           | —  |
| Consolidated Edison Co-NY Inc.....  | 4,951,076                                  | 9,583,897         | —  | —                 | 9,690,330                                  | 239,322,113       | —  |
| Long Island Lighting Co.....        | —  | —                 | —  | —                 | 846,253                                    | 6,553,549         | —  |
| Long Sault Inc.....                 | —  | —                 | —  | —                 | —  | —                 | 157,394                                    |
| New York State Elec & Gas Corp..... | 18,928                                     | 1,848,732         | —  | —                 | 790,469                                    | 6,818,784         | —  |
| Niagara Mohawk Power Corp.....      | 662,173                                    | 37,162,424        | —  | —                 | 278,207                                    | 21,247,175        | 9,628                                      |
| Orange & Rockland Utils Inc.....    | —  | —                 | —  | —                 | 155,743                                    | 109,017           | —  |
| Rochester Gas & Electric Corp.....  | —  | —                 | —  | —                 | 72,182                                     | 433,547           | —  |
| <b>North Carolina</b>               |  |                   |  |                   |  |                   |  |
| Carolina Power & Light Co.....      | —  | 455,942           | 509,981                                    | 936,845           | —  | —                 | 199,446                                    |
| Duke Power Co.....                  | 945,362                                    | 5,892,550         | 448,762                                    | 2,665,157         | —  | —                 | 150,123                                    |
| <b>North Dakota</b>                 |  |                   |  |                   |  |                   |  |
| MDU Resources Group Inc.....        | —  | —                 | 499,298                                    | 313,979           | —  | —                 | —  |
| <b>Ohio</b>                         |  |                   |  |                   |  |                   |  |
| Cincinnati Gas & Electric Co.....   | 231,304                                    | -142,613          | —  | —                 | —  | —                 | 300,109                                    |
| Cleveland Electric Illum Co.....    | 134,804                                    | 15,227            | —  | —                 | —  | -75,882           | 5,956                                      |
| Columbus Southern Power Co.....     | 1,519,063                                  | 5,965,415         | —  | —                 | 79,078                                     | 271,801           | 372,187                                    |
| Dayton Power & Light Co.....        | 38   | -106,468          | —  | —                 | —  | —                 | 688,463                                    |
| Ohio Edison Co.....                 | —  | 94,808            | —  | —                 | —  | —                 | 1,934,912                                  |
| Ohio Power Co.....                  | 2,533,081                                  | 5,977,223         | 26   | —                 | 131,867                                    | 453,348           | 435,235                                    |
| Ohio Valley Electric Corp.....      | 256,674                                    | 405,159           | —  | —                 | —  | —                 | —  |
| Toledo Edison Co.....               | 45,267                                     | 51,235            | —  | —                 | —  | -17,325           | 196,675                                    |

See notes and footnotes at end of table.

**Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                     | Municipal         | Cooperative                                |                   | Other <sup>1</sup>                         |                   | Total                                      |                   |
|-------------------------------------|-------------------|--|-------------------|--|-------------------|--|-------------------|
|                                     | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) |
| <b>Massachusetts</b>                |                   |  |                   |  |                   |  |                   |
| Commonwealth Electric Co.....       | —                 | —  | —                 | —  | 136,372           | —  | 957,957           |
| Fitchburg Gas & Elec Light Co.....  | —                 | —  | —                 | —  | —                 | —  | —                 |
| Holyoke Water Power Co.....         | —                 | —  | —                 | —  | 420               | 192  | 91,389            |
| Montaup Electric Co.....            | 349,278           | —  | —                 | 901,720                                    | 2,008,999         | 1,130,672                                  | 2,747,508         |
| New England Hydro-Tran Elec Co..... | —                 | —  | —                 | —  | 43,721,989        | —  | 43,721,989        |
| New England Power Co.....           | 6,429,260         | —  | —                 | 89,190                                     | 11,995,230        | 5,155,538                                  | 30,774,763        |
| Western Massachusetts Elec Co.....  | 1,008,148         | —  | —                 | 497,547                                    | 1,659,348         | 1,117,470                                  | 4,851,844         |
| <b>Michigan</b>                     |                   |  |                   |  |                   |  |                   |
| Consumers Power Co.....             | 131,027           | 5,590                                      | 78,420            | 170,598                                    | 2,068,080         | 404,838                                    | 2,915,417         |
| Detroit Edison Co.....              | 28,833            | —  | —                 | 400  | 2,832             | 108,314                                    | 894,921           |
| <b>Minnesota</b>                    |                   |  |                   |  |                   |  |                   |
| Minnesota Power & Light Co.....     | 998,066           | 1,523,723                                  | 2,056,780         | 28,480                                     | 990,430           | 1,647,729                                  | 4,045,276         |
| Northern States Power Co.....       | 3,678,109         | 2,710,195                                  | 8,090,894         | 231,579                                    | 2,073,914         | 6,882,932                                  | 20,367,005        |
| Otter Tail Power Co.....            | 63,238            | —  | —                 | 1,420,646                                  | 177,970           | 1,432,359                                  | 264,426           |
| <b>Mississippi</b>                  |                   |  |                   |  |                   |  |                   |
| Mississippi Power Co.....           | —                 | —  | —                 | —  | 239,200           | 114,950                                    | 2,784,992         |
| <b>Missouri</b>                     |                   |  |                   |  |                   |  |                   |
| Empire District Electric Co.....    | —                 | 507,267                                    | 1,714,506         | 291,796                                    | 347,103           | 1,319,264                                  | 2,482,464         |
| Kansas City Power & Light Co.....   | 1,557,892         | 8,979                                      | 55,177            | 163,450                                    | 267,548           | 1,791,926                                  | 4,258,687         |
| St Joseph Light & Power Co.....     | —                 | —  | —                 | 70,053                                     | 109,429           | 269,884                                    | 212,894           |
| Union Electric Co.....              | 707,005           | 371,256                                    | —                 | 128,953                                    | 361,216           | 801,150                                    | 1,079,378         |
| UtiliCorp United Inc.....           | 386,824           | 664,762                                    | 2,138,049         | 33,213                                     | 60,786            | 812,125                                    | 2,760,345         |
| <b>Montana</b>                      |                   |  |                   |  |                   |  |                   |
| Montana Power Co.....               | —                 | 575  | 41,944            | —  | —                 | 1,318,841                                  | 6,693,194         |
| <b>Nevada</b>                       |                   |  |                   |  |                   |  |                   |
| Nevada Power Co.....                | 38,332            | —  | —                 | 34,911                                     | 249,172           | 559,665                                    | 2,424,177         |
| Sierra Pacific Power Co.....        | —                 | 431,570                                    | 196,731           | 11,770                                     | 568,755           | 1,204,609                                  | 5,911,662         |
| <b>New Hampshire</b>                |                   |  |                   |  |                   |  |                   |
| Concord Electric Co.....            | —                 | —  | —                 | 175,223                                    | 26,081            | 175,223                                    | 26,081            |
| Connecticut Valley Elec Co Inc..... | 1,511             | 14,576                                     | 23,264            | —  | —                 | 34,477                                     | 24,775            |
| Exeter & Hampton Electric Co.....   | —                 | —  | —                 | —  | —                 | —  | —                 |
| Great Bay Power Corp.....           | —                 | —  | —                 | —  | 54,557            | —  | 54,557            |
| New England Elec Transm'n Corp..... | —                 | —  | —                 | —  | 10,062,202        | —  | 10,062,202        |
| New England Hydro-Trans Corp.....   | —                 | —  | —                 | —  | 33,608,657        | —  | 33,608,657        |
| North Atlantic Energy Corp.....     | —                 | —  | —                 | —  | —                 | —  | 2,603,573         |
| Public Service Co of NH.....        | 34,144            | —  | 188,159           | 1,169,064                                  | 5,707,819         | 1,533,045                                  | 11,855,265        |
| UNITIL Power Corp.....              | —                 | —  | —                 | —  | —                 | —  | —                 |
| <b>New Jersey</b>                   |                   |  |                   |  |                   |  |                   |
| Atlantic City Electric Co.....      | 56,657            | —  | —                 | —  | —                 | 21,703                                     | 56,657            |
| Jersey Central Power&Light Co.....  | 2,513,793         | 120,021                                    | 891,060           | 752,611                                    | 1,362,140         | 1,872,223                                  | 6,182,026         |
| Public Service Electric&Gas Co..... | 326,676           | —  | —                 | 168,396                                    | 744,647           | 3,249,843                                  | 7,475,931         |
| Rockland Electric Co.....           | —                 | —  | —                 | —  | —                 | —  | —                 |
| <b>New Mexico</b>                   |                   |  |                   |  |                   |  |                   |
| Public Service Co of NM.....        | 1,772,047         | 191,808                                    | 4,067,157         | 439,275                                    | 3,275,716         | 4,421,513                                  | 15,427,747        |
| <b>New York</b>                     |                   |  |                   |  |                   |  |                   |
| Central Hudson Gas & Elec Corp..... | —                 | —  | —                 | 120,369                                    | 189,759           | 1,534,570                                  | 1,257,714         |
| Consolidated Edison Co-NY Inc.....  | —                 | —  | —                 | 16,313,678                                 | 6,357,660         | 30,955,084                                 | 255,263,670       |
| Long Island Lighting Co.....        | —                 | —  | —                 | —  | —                 | 846,253                                    | 6,553,549         |
| Long Sault Inc.....                 | 143,562           | —  | —                 | 1,967,427                                  | 1,145,464         | 2,124,821                                  | 1,289,026         |
| New York State Elec & Gas Corp..... | —                 | —  | —                 | 2,470                                      | 868,419           | 811,867                                    | 9,535,935         |
| Niagara Mohawk Power Corp.....      | 66,138            | —  | —                 | 1,295,222                                  | 33,021,753        | 2,245,230                                  | 91,497,490        |
| Orange & Rockland Utils Inc.....    | —                 | —  | —                 | —  | —                 | 155,743                                    | 109,017           |
| Rochester Gas & Electric Corp.....  | —                 | —  | —                 | —  | —                 | 72,182                                     | 433,547           |
| <b>North Carolina</b>               |                   |  |                   |  |                   |  |                   |
| Carolina Power & Light Co.....      | 8,854,374         | 1,787,454                                  | 2,883,164         | 235,021                                    | 155,524           | 2,731,902                                  | 13,285,849        |
| Duke Power Co.....                  | 9,369,282         | 48,881                                     | 12,268,001        | 1,410,563                                  | 3,522,700         | 3,003,691                                  | 33,717,690        |
| <b>North Dakota</b>                 |                   |  |                   |  |                   |  |                   |
| MDU Resources Group Inc.....        | —                 | 602,260                                    | 111,649           | 14,541                                     | 120,175           | 1,116,099                                  | 545,803           |
| <b>Ohio</b>                         |                   |  |                   |  |                   |  |                   |
| Cincinnati Gas & Electric Co.....   | 967,831           | 290,740                                    | 620,649           | 189,820                                    | 273,212           | 1,011,973                                  | 1,719,079         |
| Cleveland Electric Illum Co.....    | 4,863,381         | —  | —                 | 536,947                                    | 962,527           | 677,707                                    | 5,765,253         |
| Columbus Southern Power Co.....     | 1,226,129         | 1,397,943                                  | 3,065,166         | 523,842                                    | 1,767,261         | 3,892,113                                  | 12,295,772        |
| Dayton Power & Light Co.....        | 2,788,462         | 1,194,288                                  | 2,325,831         | —  | 240               | 1,882,789                                  | 5,008,065         |
| Ohio Edison Co.....                 | 7,621,706         | —  | —                 | —  | 3,057             | 1,934,912                                  | 7,719,571         |
| Ohio Power Co.....                  | 1,300,632         | 6,936,783                                  | 17,240,432        | 909,124                                    | 5,672,524         | 10,946,116                                 | 30,644,159        |
| Ohio Valley Electric Corp.....      | —                 | —  | —                 | —  | —                 | 256,674                                    | 405,159           |
| Toledo Edison Co.....               | 478,658           | —  | —                 | 88,003                                     | 68,570            | 329,945                                    | 581,138           |

See notes and footnotes at end of table.

**Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                     | Investor-Owned                             |                   | Federal                                    |                   | State and Other Government                 |                   | Municipal                                  |
|-------------------------------------|--|-------------------|--|-------------------|--|-------------------|--|
|                                     | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> |
| <b>Oklahoma</b>                     |  |                   |  |                   |  |                   |  |
| Oklahoma Gas & Electric Co.....     | 137,055                                    | 213,996           | 89,383                                     | 761,320           | 941,908                                    | 3,614,352         | —  |
| Public Service Co of Oklahoma.....  | 75,427                                     | 416,717           | —  | —                 | 78   | 254,808           | —  |
| <b>Oregon</b>                       |  |                   |  |                   |  |                   |  |
| PacifiCorp.....                     | 1,313,194                                  | 2,260,580         | 5,452,264                                  | 11,001,270        | 1,326,342                                  | 5,528,097         | 377,228                                    |
| Portland General Electric Co.....   | 1,430                                      | 254,474           | —  | 335,229           | —  | —                 | 400  |
| <b>Pennsylvania</b>                 |  |                   |  |                   |  |                   |  |
| Duquesne Light Co.....              | —  | —                 | —  | —                 | —  | —                 | —  |
| Metropolitan Edison Co.....         | 315,333                                    | 7,693,150         | —  | —                 | —  | —                 | 57,866                                     |
| Pennsylvania Electric Co.....       | 3,514,767                                  | 13,043,584        | —  | —                 | —  | —                 | 285,866                                    |
| Pennsylvania Power & Light Co.....  | 1,242,345                                  | 4,459,980         | —  | —                 | —  | —                 | 27,614                                     |
| Pennsylvania Power Co.....          | —  | 42,800            | —  | —                 | —  | —                 | 42,701                                     |
| PECO Energy Co.....                 | —  | —                 | —  | —                 | —  | —                 | —  |
| West Penn Power Co.....             | 3,749,153                                  | 9,643,169         | —  | —                 | —  | —                 | 158,576                                    |
| <b>South Carolina</b>               |  |                   |  |                   |  |                   |  |
| South Carolina Electric&Gas Co..... | 19,411                                     | 47,216            | 31,750                                     | 357,370           | 71,662                                     | 75,000            | —  |
| <b>South Dakota</b>                 |  |                   |  |                   |  |                   |  |
| Black Hills Corp.....               | —  | —                 | —  | —                 | 8,240                                      | 31,907            | 13,206                                     |
| Northwestern Public Service Co..... | —  | —                 | 43,547                                     | 49,913            | —  | —                 | 3,916                                      |
| <b>Texas</b>                        |  |                   |  |                   |  |                   |  |
| Central Power & Light Co.....       | —  | 990,943           | —  | —                 | —  | 91,824            | —  |
| El Paso Electric Co.....            | 168,859                                    | 189,887           | 210,956                                    | 738,346           | 135,168                                    | 1,237,000         | —  |
| Entergy Gulf States Inc.....        | 170,909                                    | 1,431,855         | 775  | 2,815             | 408,966                                    | 1,741,666         | —  |
| Houston Lighting & Power Co.....    | 2,932,747                                  | 7,017,951         | —  | —                 | —  | 137,653           | —  |
| Southwestern Electric Serv Co.....  | —  | —                 | —  | —                 | —  | —                 | —  |
| Southwestern Public Service Co..... | 9,396                                      | 38,007            | —  | —                 | —  | —                 | 56   |
| Texas Utilities Electric Co.....    | 2,863,466                                  | 5,356,969         | —  | —                 | 181,511                                    | 678,107           | 3,035,475                                  |
| Texas-New Mexico Power Co.....      | 1,987,094                                  | 6,296,854         | —  | —                 | —  | —                 | —  |
| West Texas Utilities Co.....        | —  | 345,301           | —  | —                 | —  | 690,267           | —  |
| <b>Vermont</b>                      |  |                   |  |                   |  |                   |  |
| Central Vermont Pub Serv Corp.....  | 5,428                                      | 1,089,092         | —  | —                 | —  | —                 | 166,900                                    |
| Green Mountain Power Corp.....      | 41,980                                     | 552,568           | —  | —                 | —  | —                 | 238,498                                    |
| Vermont Electric Power Co Inc.....  | 3,662,717                                  | 12,818,440        | —  | —                 | —  | 341,813           | 680,007                                    |
| Vermont Electric Trans Co Inc.....  | 5,574,011                                  | 4,151,127         | —  | —                 | 285,540                                    | 197,246           | 124,659                                    |
| <b>Virginia</b>                     |  |                   |  |                   |  |                   |  |
| Appalachian Power Co.....           | 3,089,629                                  | 12,263,093        | 9,765                                      | 373,020           | 160,390                                    | 609,006           | 515,404                                    |
| Virginia Electric & Power Co.....   | 4,572,008                                  | 4,484,922         | 1,410,688                                  | 2,702,268         | —  | —                 | 724,204                                    |
| <b>Washington</b>                   |  |                   |  |                   |  |                   |  |
| Puget Sound Power & Light Co.....   | 364,935                                    | 816,299           | 522,461                                    | 1,564,410         | 1,579,493                                  | 2,482,446         | 648,614                                    |
| Washington Water Power Co.....      | 269,135                                    | 1,545,739         | 1,576,117                                  | 6,876,538         | 183,047                                    | 41,923            | 452,860                                    |
| <b>West Virginia</b>                |  |                   |  |                   |  |                   |  |
| Monongahela Power Co.....           | 2,063,051                                  | 13,701,000        | —  | —                 | —  | —                 | 87,306                                     |
| Wheeling Power Co.....              | —  | 1,147,359         | —  | —                 | —  | —                 | —  |
| <b>Wisconsin</b>                    |  |                   |  |                   |  |                   |  |
| Northern States Power Co.....       | —  | —                 | —  | —                 | —  | —                 | —  |
| Northwestern Wisconsin Elec Co..... | —  | —                 | —  | —                 | —  | —                 | —  |
| Superior Water Light&Power Co.....  | 5,277                                      | 15,955            | —  | —                 | —  | —                 | —  |
| Wisconsin Electric Power Co.....    | 312,050                                    | 391,458           | —  | —                 | —  | —                 | 1,497,757                                  |
| Wisconsin Power & Light Co.....     | 120,577                                    | 453,998           | —  | —                 | —  | —                 | —  |
| Wisconsin Public Service Corp.....  | 121,183                                    | 289,166           | —  | —                 | —  | —                 | 76,186                                     |

See notes and footnotes at end of table.

**Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                     | Municipal         | Cooperative                                |                   | Other <sup>1</sup>                         |                   | Total                                      |                   |
|-------------------------------------|-------------------|--|-------------------|--|-------------------|--|-------------------|
|                                     | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Revenue (dollars) |
| <b>Oklahoma</b>                     |                   |  |                   |  |                   |  |                   |
| Oklahoma Gas & Electric Co.....     | —                 | 342,463                                    | 1,043,224         | 436,263                                    | 681,303           | 1,947,072                                  | 6,314,195         |
| Public Service Co of Oklahoma.....  | —                 | 185,037                                    | 888,700           | 627,276                                    | 4,333,385         | 887,818                                    | 5,893,610         |
| <b>Oregon</b>                       |                   |  |                   |  |                   |  |                   |
| PacifiCorp.....                     | 1,490,436         | 302,934                                    | 2,097,807         | 71,577                                     | 238,624           | 8,843,539                                  | 22,616,814        |
| Portland General Electric Co.....   | 187,800           | —  | —                 | 840  | 1,050             | 2,670                                      | 778,553           |
| <b>Pennsylvania</b>                 |                   |  |                   |  |                   |  |                   |
| Duquesne Light Co.....              | —                 | —  | —                 | 1,005,783                                  | 2,579,597         | 1,005,783                                  | 2,579,597         |
| Metropolitan Edison Co.....         | 223,405           | 278,526                                    | 2,276,238         | 368,169                                    | 659,420           | 1,019,894                                  | 10,852,213        |
| Pennsylvania Electric Co.....       | 1,797,801         | 2,354,703                                  | 7,522,067         | 632,093                                    | 2,175,956         | 6,787,429                                  | 24,539,408        |
| Pennsylvania Power & Light Co.....  | 140,211           | —  | —                 | 2,028,614                                  | 3,835,678         | 3,298,573                                  | 8,435,869         |
| Pennsylvania Power Co.....          | 222,411           | —  | —                 | —  | 3,679             | 42,701                                     | 268,890           |
| PECO Energy Co.....                 | —                 | —  | —                 | 426,825                                    | 2,326,407         | 426,825                                    | 2,326,407         |
| West Penn Power Co.....             | 1,136,498         | —  | —                 | 2,063,296                                  | 4,393,634         | 5,971,025                                  | 15,173,301        |
| <b>South Carolina</b>               |                   |  |                   |  |                   |  |                   |
| South Carolina Electric&Gas Co..... | —                 | —  | —                 | 8,445                                      | 20,415            | 131,268                                    | 500,001           |
| <b>South Dakota</b>                 |                   |  |                   |  |                   |  |                   |
| Black Hills Corp.....               | 390,918           | 2,663,156                                  | 1,286,193         | —  | —                 | 2,684,602                                  | 1,709,018         |
| Northwestern Public Service Co..... | 10,065            | 798  | 2,624             | 16,850                                     | 34,497            | 65,111                                     | 97,099            |
| <b>Texas</b>                        |                   |  |                   |  |                   |  |                   |
| Central Power & Light Co.....       | 1,998,589         | —  | 410,185           | 895,724                                    | 281,145           | 895,724                                    | 3,772,686         |
| El Paso Electric Co.....            | —                 | 16,828                                     | 69,618            | —  | —                 | 531,811                                    | 2,234,851         |
| Entergy Gulf States Inc.....        | 596,540           | 6,701,149                                  | 27,410,879        | 171,047                                    | 614,858           | 7,452,846                                  | 31,798,613        |
| Houston Lighting & Power Co.....    | 683,641           | —  | 169,967           | 1,790,874                                  | 1,399,545         | 4,723,621                                  | 9,408,757         |
| Southwestern Electric Serv Co.....  | —                 | 100,250                                    | 230,348           | —  | —                 | 100,250                                    | 230,348           |
| Southwestern Public Service Co..... | 168               | —  | 4,884             | 243,598                                    | 728,535           | 253,050                                    | 771,594           |
| Texas Utilities Electric Co.....    | 3,695,535         | 2,267,707                                  | 10,738,578        | 2,946,243                                  | 16,314,901        | 11,294,402                                 | 36,784,090        |
| Texas-New Mexico Power Co.....      | —                 | 6,227                                      | 7,077             | 242,448                                    | 207,754           | 2,235,769                                  | 6,511,685         |
| West Texas Utilities Co.....        | 703,355           | —  | 40,496            | 224,949                                    | 1,897,133         | 224,949                                    | 3,676,552         |
| <b>Vermont</b>                      |                   |  |                   |  |                   |  |                   |
| Central Vermont Pub Serv Corp.....  | 554,612           | 108,076                                    | 598,036           | —  | —                 | 280,404                                    | 2,241,740         |
| Green Mountain Power Corp.....      | 424,718           | 89,070                                     | 143,023           | —  | -222,420          | 369,548                                    | 897,889           |
| Vermont Electric Power Co Inc.....  | 1,932,234         | 202,639                                    | 717,250           | —  | —                 | 4,545,363                                  | 15,809,737        |
| Vermont Electric Trans Co Inc.....  | 86,112            | —  | —                 | 2,619,452                                  | 1,277,696         | 8,603,662                                  | 5,712,181         |
| <b>Virginia</b>                     |                   |  |                   |  |                   |  |                   |
| Appalachian Power Co.....           | 1,353,891         | 306,674                                    | 2,740,270         | 974,878                                    | 3,822,918         | 5,056,740                                  | 21,162,198        |
| Virginia Electric & Power Co.....   | —                 | 3,854,175                                  | 9,967,425         | 186,789                                    | 331,106           | 10,747,864                                 | 17,485,721        |
| <b>Washington</b>                   |                   |  |                   |  |                   |  |                   |
| Puget Sound Power & Light Co.....   | 618,837           | —  | —                 | 1,262,191                                  | 3,331,037         | 4,377,694                                  | 8,813,029         |
| Washington Water Power Co.....      | 240,246           | 2,209                                      | 7,926             | 1,741,550                                  | 6,270,658         | 4,224,918                                  | 14,983,030        |
| <b>West Virginia</b>                |                   |  |                   |  |                   |  |                   |
| Monongahela Power Co.....           | 625,461           | 61,585                                     | 74,444            | 1,135,191                                  | 2,417,043         | 3,347,133                                  | 16,817,948        |
| Wheeling Power Co.....              | —                 | —  | —                 | —  | —                 | —  | 1,147,359         |
| <b>Wisconsin</b>                    |                   |  |                   |  |                   |  |                   |
| Northern States Power Co.....       | —                 | —  | —                 | —  | —                 | —  | —                 |
| Northwestern Wisconsin Elec Co..... | —                 | 16,322                                     | 64,072            | —  | —                 | 16,322                                     | 64,072            |
| Superior Water Light&Power Co.....  | —                 | 12,970                                     | 38,310            | —  | —                 | 18,247                                     | 54,265            |
| Wisconsin Electric Power Co.....    | —                 | 3,558                                      | 7,685             | 65,983                                     | 3,062,988         | 1,879,348                                  | 3,462,131         |
| Wisconsin Power & Light Co.....     | 87,198            | —  | —                 | 139,451                                    | 213,824           | 260,028                                    | 755,020           |
| Wisconsin Public Service Corp.....  | 337,238           | —  | —                 | 7,274                                      | 18,902            | 204,643                                    | 645,306           |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

<sup>2</sup> Value presented is the greater of the received or delivered quantity.

—Not Applicable

Notes: •Wheeling (transmission services) is reported in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. •For identification purposes, the utilities are listed in the State in which the corporate office is located. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form I-F, "Annual Report of Nonmajor Public Utilities and Licensees."

**Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996**

| State / Utility                      | Investor-Owned                             |                | Federal                                    |                | State and Other Government                 |                | Municipal                                  |
|--------------------------------------|--|----------------|--|----------------|--|----------------|--|
|                                      | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> |
| <b>Alabama</b>                       |  |                |  |                |  |                |  |
| Alabama Power Co .....               | 12,262                                     | 35,881         | —  | —              | —  | —              | —  |
| <b>Arizona</b>                       |  |                |  |                |  |                |  |
| Arizona Public Service Co.....       | 49,931                                     | 234,130        | 2,255,995                                  | 2,379,324      | 4,678,236                                  | 1,177,444      | 1,112                                      |
| Tucson Electric Power Co .....       | 1,337,350                                  | 1,829,129      | 326,120                                    | 817,534        | 57,070                                     | —              | 124  |
| <b>Arkansas</b>                      |  |                |  |                |  |                |  |
| Entergy Arkansas Inc .....           | —  | —              | —  | 69,672         | —  | —              | —  |
| Entergy Power Inc.....               | —  | 4,273,199      | —  | 1,248,666      | —  | —              | —  |
| <b>California</b>                    |  |                |  |                |  |                |  |
| Pacific Gas & Electric Co .....      | 8,822,672                                  | 822,588        | 8,822,672                                  | 382,486        | 669,074                                    | 127,554        | 10,268                                     |
| San Diego Gas & Electric Co .....    | 23,158                                     | 11,629,860     | —  | 57,070         | 503  | 609            | 263  |
| Southern California Edison Co.....   | 5,041,184                                  | 6,219,700      | 6,145                                      | 114,354        | 84,944                                     | 279,495        | 363,326                                    |
| <b>Colorado</b>                      |  |                |  |                |  |                |  |
| Public Service Co of Colorado.....   | —  | —              | 220,049                                    | 4,531,624      | 206,382                                    | 440,631        | 63,695                                     |
| <b>Connecticut</b>                   |  |                |  |                |  |                |  |
| Citizens Utilities Co.....           | 103,927                                    | 653,572        | 1,100,811                                  | 3,394,584      | —  | —              | 2,178                                      |
| Connecticut Light & Power Co.....    | —  | 20,868,678     | —  | —              | —  | —              | 26,058                                     |
| United Illuminating Co .....         | 592,540                                    | 9,612,306      | —  | —              | 9,085                                      | 183,687        | —  |
| <b>Florida</b>                       |  |                |  |                |  |                |  |
| Florida Power & Light Co.....        | 1,839                                      | 4,097          | —  | 500            | —  | —              | 4,219,382                                  |
| Florida Power Corp.....              | —  | —              | —  | —              | —  | —              | —  |
| Tampa Electric Co .....              | 99,836                                     | 289,038        | —  | —              | —  | —              | —  |
| <b>Georgia</b>                       |  |                |  |                |  |                |  |
| Georgia Power Co.....                | —  | —              | —  | —              | —  | —              | —  |
| <b>Hawaii</b>                        |  |                |  |                |  |                |  |
| Maui Electric Co Ltd .....           | —  | —              | —  | —              | —  | —              | —  |
| <b>Idaho</b>                         |  |                |  |                |  |                |  |
| Idaho Power Co.....                  | 429,757                                    | 976,836        | 654,797                                    | 1,132,219      | 1,400                                      | 1,050          | 397  |
| <b>Illinois</b>                      |  |                |  |                |  |                |  |
| Central Illinois Light Co.....       | —  | —              | —  | —              | —  | —              | —  |
| Central Illinois Pub Serv Co.....    | —  | —              | —  | —              | —  | —              | —  |
| Commonwealth Edison Co .....         | —  | 2,389,671      | —  | —              | —  | —              | —  |
| Illinois Power Co .....              | —  | —              | —  | —              | —  | —              | —  |
| Mt Carmel Public Utility Co .....    | —  | —              | —  | —              | —  | —              | —  |
| <b>Indiana</b>                       |  |                |  |                |  |                |  |
| Alcoa Generating Corp .....          | —  | —              | —  | —              | —  | —              | —  |
| Indiana Michigan Power Co.....       | 296,497                                    | 623,885        | —  | —              | —  | —              | —  |
| Northern Indiana Pub Serv Co .....   | —  | 209,872        | —  | —              | —  | —              | —  |
| PSI Energy Inc .....                 | 1,012,553                                  | 2,560,747      | 3,106                                      | 8,105          | —  | -23,000        | 59,565                                     |
| Southern Indiana Gas & Elec Co.....  | —  | 7,707          | —  | —              | —  | —              | —  |
| <b>Iowa</b>                          |  |                |  |                |  |                |  |
| Interstate Power Co.....             | —  | 2,182,698      | —  | —              | —  | —              | —  |
| IES Utilities Inc.....               | 23,741                                     | —              | —  | —              | —  | —              | —  |
| MidAmerican Energy Co.....           | —  | —              | —  | —              | —  | —              | —  |
| <b>Kansas</b>                        |  |                |  |                |  |                |  |
| Kansas Gas & Electric Co.....        | 954,616                                    | -828,348       | —  | —              | —  | —              | —  |
| Western Resources Inc.....           | 707,587                                    | 3,004,250      | —  | —              | —  | —              | 991  |
| <b>Kentucky</b>                      |  |                |  |                |  |                |  |
| Kentucky Power Co .....              | 105,386                                    | 226,685        | —  | —              | —  | —              | —  |
| Kentucky Utilities Co.....           | —  | —              | 3,036                                      | 4,728          | —  | —              | —  |
| Louisville Gas & Electric Co .....   | —  | 345,876        | —  | 471,739        | —  | —              | —  |
| <b>Louisiana</b>                     |  |                |  |                |  |                |  |
| Central Louisiana Elec Co Inc.....   | —  | —              | —  | —              | —  | —              | —  |
| Southwestern Electric Power Co ..... | —  | 4,989,353      | —  | —              | —  | 55,068         | —  |
| <b>Maine</b>                         |  |                |  |                |  |                |  |
| Bangor Hydro-Electric Co .....       | —  | 1,838,736      | —  | —              | —  | —              | —  |
| Central Maine Power Co .....         | 2,331,712                                  | 2,659,056      | —  | —              | —  | —              | —  |
| Maine Public Service Co .....        | 787,914                                    | 840,928        | —  | —              | —  | —              | —  |
| <b>Maryland</b>                      |  |                |  |                |  |                |  |
| Baltimore Gas & Electric Co.....     | —  | 319,316        | —  | —              | —  | —              | —  |
| Potomac Edison Co.....               | 1,595,024                                  | 1,714,954      | —  | —              | —  | —              | 181,202                                    |
| <b>Massachusetts</b>                 |  |                |  |                |  |                |  |
| Boston Edison Co.....                | —  | —              | —  | —              | —  | —              | —  |
| Cambridge Electric Light Co.....     | 610,072                                    | 5,705,675      | —  | —              | —  | —              | —  |
| Canal Electric Co .....              | —  | 4,120,027      | —  | —              | —  | —              | —  |
| Commonwealth Electric Co.....        | 1,771,757                                  | 3,701,502      | —  | —              | —  | —              | —  |
| Fitchburg Gas & Elec Light Co .....  | 150,456                                    | 253,381        | —  | —              | —  | 2,185          | —  |
| Holyoke Water Power Co.....          | —  | 211,944        | —  | —              | —  | —              | —  |
| Massachusetts Electric Co .....      | 104,706                                    | 361,847        | —  | —              | —  | —              | —  |

See notes and footnotes at end of table.

**Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                     | Municipal      | Cooperative                                |                | Other <sup>1</sup>                         |                | Total                                      |                |
|-------------------------------------|----------------|--|----------------|--|----------------|--|----------------|
|                                     | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) |
| <b>Alabama</b>                      |                |  |                |  |                |  |                |
| Alabama Power Co.....               | —              | 61   | 1,339          | 73   | 1,825          | 12,396                                     | 39,045         |
| <b>Arizona</b>                      |                |  |                |  |                |  |                |
| Arizona Public Service Co.....      | 175,371        | —  | —              | 802  | —              | 6,986,076                                  | 3,966,269      |
| Tucson Electric Power Co.....       | 217            | —  | —              | —  | —              | 1,720,664                                  | 2,646,880      |
| <b>Arkansas</b>                     |                |  |                |  |                |  |                |
| Entergy Arkansas Inc.....           | —              | —  | 193,624        | —  | —              | —  | 263,296        |
| Entergy Power Inc.....              | -23,746        | —  | 507,000        | 534,658                                    | 1,581,094      | 534,658                                    | 7,586,213      |
| <b>California</b>                   |                |  |                |  |                |  |                |
| Pacific Gas & Electric Co.....      | 187,160        | —  | —              | 19,377,106                                 | 6,143,646      | 37,701,792                                 | 7,663,434      |
| San Diego Gas & Electric Co.....    | 584,285        | —  | —              | —  | 13,361         | 23,924                                     | 12,285,185     |
| Southern California Edison Co.....  | 546,167        | —  | —              | —  | —              | 5,495,599                                  | 7,159,716      |
| <b>Colorado</b>                     |                |  |                |  |                |  |                |
| Public Service Co of Colorado.....  | 204,721        | 66,510                                     | 4,106,881      | —  | —              | 556,636                                    | 9,283,857      |
| <b>Connecticut</b>                  |                |  |                |  |                |  |                |
| Citizens Utilities Co.....          | 13,225         | —  | —              | —  | 608,601        | 1,206,916                                  | 4,669,982      |
| Connecticut Light & Power Co.....   | 663,432        | —  | —              | 469,906                                    | 4,608,857      | 495,964                                    | 26,140,967     |
| United Illuminating Co.....         | —              | —  | —              | —  | 1,780,410      | 601,625                                    | 11,576,403     |
| <b>Florida</b>                      |                |  |                |  |                |  |                |
| Florida Power & Light Co.....       | 273,881        | —  | —              | 4,094,052                                  | 10,533,719     | 8,315,273                                  | 10,812,197     |
| Florida Power Corp.....             | 84,007         | —  | —              | —  | —              | —  | 84,007         |
| Tampa Electric Co.....              | —              | —  | —              | —  | —              | 99,836                                     | 289,038        |
| <b>Georgia</b>                      |                |  |                |  |                |  |                |
| Georgia Power Co.....               | —              | —  | —              | —  | —              | —  | —              |
| <b>Hawaii</b>                       |                |  |                |  |                |  |                |
| Maui Electric Co Ltd.....           | —              | —  | —              | —  | —              | —  | —              |
| <b>Idaho</b>                        |                |  |                |  |                |  |                |
| Idaho Power Co.....                 | 1,687          | 420  | 630            | 338  | 638            | 1,087,109                                  | 2,113,060      |
| <b>Illinois</b>                     |                |  |                |  |                |  |                |
| Central Illinois Light Co.....      | —              | —  | —              | —  | —              | —  | —              |
| Central Illinois Pub Serv Co.....   | —              | —  | —              | —  | —              | —  | —              |
| Commonwealth Edison Co.....         | —              | —  | —              | —  | 506,778        | —  | 2,896,449      |
| Illinois Power Co.....              | —              | 7,405                                      | 7,405          | —  | —              | 7,405                                      | 7,405          |
| Mt Carmel Public Utility Co.....    | —              | —  | —              | —  | —              | —  | —              |
| <b>Indiana</b>                      |                |  |                |  |                |  |                |
| Alcoa Generating Corp.....          | —              | —  | —              | —  | —              | —  | —              |
| Indiana Michigan Power Co.....      | —              | —  | —              | —  | -46,297,834    | 296,497                                    | -45,673,949    |
| Northern Indiana Pub Serv Co.....   | —              | —  | —              | —  | 1,825          | —  | 211,697        |
| PSI Energy Inc.....                 | 61,432         | 303,106                                    | 525,278        | —  | —              | 1,378,330                                  | 3,132,562      |
| Southern Indiana Gas & Elec Co..... | —              | —  | —              | —  | —              | —  | 7,707          |
| <b>Iowa</b>                         |                |  |                |  |                |  |                |
| Interstate Power Co.....            | —              | —  | 449,684        | —  | 285,263        | —  | 2,917,645      |
| IES Utilities Inc.....              | —              | 47,930                                     | 312,799        | —  | 1,188,147      | 71,671                                     | 1,500,946      |
| MidAmerican Energy Co.....          | —              | —  | 27,861         | —  | 363,032        | —  | 390,893        |
| <b>Kansas</b>                       |                |  |                |  |                |  |                |
| Kansas Gas & Electric Co.....       | —              | —  | —              | 1,800                                      | 5,500          | 956,416                                    | -822,848       |
| Western Resources Inc.....          | 7,880          | —  | —              | —  | —              | 708,578                                    | 3,012,130      |
| <b>Kentucky</b>                     |                |  |                |  |                |  |                |
| Kentucky Power Co.....              | —              | —  | 96,159         | —  | -3,364,812     | 105,386                                    | -3,041,968     |
| Kentucky Utilities Co.....          | —              | 416,370                                    | 1,159,668      | —  | —              | 419,406                                    | 1,164,396      |
| Louisville Gas & Electric Co.....   | —              | —  | 41,925         | —  | 11,416         | —  | 870,956        |
| <b>Louisiana</b>                    |                |  |                |  |                |  |                |
| Central Louisiana Elec Co Inc.....  | —              | —  | —              | 6,604                                      | 21,320         | 6,604                                      | 21,320         |
| Southwestern Electric Power Co..... | 561,200        | —  | 32,463         | —  | 2,858,135      | —  | 8,496,219      |
| <b>Maine</b>                        |                |  |                |  |                |  |                |
| Bangor Hydro-Electric Co.....       | —              | —  | —              | —  | 1,606,192      | —  | 3,444,928      |
| Central Maine Power Co.....         | 43,929         | —  | —              | 1,650                                      | 614,201        | 2,333,362                                  | 3,317,186      |
| Maine Public Service Co.....        | —              | —  | —              | 280,603                                    | 961,531        | 1,068,517                                  | 1,802,459      |
| <b>Maryland</b>                     |                |  |                |  |                |  |                |
| Baltimore Gas & Electric Co.....    | —              | —  | —              | —  | 742,378        | —  | 1,061,694      |
| Potomac Edison Co.....              | —              | —  | —              | 2,653,768                                  | 3,960          | 4,429,994                                  | 1,718,914      |
| <b>Massachusetts</b>                |                |  |                |  |                |  |                |
| Boston Edison Co.....               | —              | —  | —              | —  | 773,556        | —  | 773,556        |
| Cambridge Electric Light Co.....    | —              | —  | —              | 605,228                                    | 471,115        | 1,215,300                                  | 6,176,790      |
| Canal Electric Co.....              | —              | —  | —              | —  | —              | —  | 4,120,027      |
| Commonwealth Electric Co.....       | —              | —  | —              | 327,758                                    | 292,408        | 2,099,515                                  | 3,993,910      |
| Fitchburg Gas & Elec Light Co.....  | —              | —  | —              | 260,101                                    | 550,495        | 410,557                                    | 806,061        |
| Holyoke Water Power Co.....         | —              | —  | —              | —  | —              | —  | 211,944        |
| Massachusetts Electric Co.....      | —              | —  | —              | —  | —              | 104,706                                    | 361,847        |

See notes and footnotes at end of table.

**Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                     | Investor-Owned                             |                | Federal                                    |                | State and Other Government                 |                | Municipal                                  |
|-------------------------------------|--|----------------|--|----------------|--|----------------|--|
|                                     | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> |
| <b>Massachusetts</b>                |  |                |  |                |  |                |  |
| Montaup Electric Co.....            | —  | 456,824        | —  | —              | —  | —              | —  |
| New England Power Co.....           | 3,896,038                                  | 27,221,418     | —  | —              | —  | —              | —  |
| Western Massachusetts Elec Co.....  | —  | 5,149,459      | —  | —              | —  | —              | —  |
| <b>Minnesota</b>                    |  |                |  |                |  |                |  |
| Minnesota Power & Light Co.....     | —  | —              | —  | —              | —  | —              | —  |
| Northern States Power Co.....       | 2,014,046                                  | 813,958        | 270,554                                    | —              | 363,540                                    | 1,783,148      | —  |
| Otter Tail Power Co.....            | —  | 1,176,929      | —  | —              | —  | —              | —  |
| <b>Missouri</b>                     |  |                |  |                |  |                |  |
| Empire District Electric Co.....    | 651,633                                    | 1,132,965      | —  | —              | 60   | 120            | —  |
| Kansas City Power & Light Co.....   | —  | 583,266        | —  | —              | —  | —              | —  |
| St Joseph Light & Power Co.....     | 1,705                                      | 3,853          | —  | —              | —  | —              | —  |
| Union Electric Co.....              | 185,095                                    | 580,159        | —  | 7,536          | —  | —              | —  |
| UtiliCorp United Inc.....           | 76,489                                     | 2,238,460      | 832  | 3,120          | 31,645                                     | 56,119         | —  |
| <b>Montana</b>                      |  |                |  |                |  |                |  |
| Montana Power Co.....               | 1,023,948                                  | 1,615,048      | 542,169                                    | 3,787,225      | —  | —              | —  |
| <b>Nevada</b>                       |  |                |  |                |  |                |  |
| Nevada Power Co.....                | 12,729                                     | 62,628         | 61,237                                     | 136,069        | 1,650                                      | 5,560          | 4,100                                      |
| Sierra Pacific Power Co.....        | 472,646                                    | 2,090,734      | 11,010                                     | 32,920         | —  | —              | 5,228                                      |
| <b>New Hampshire</b>                |  |                |  |                |  |                |  |
| Concord Electric Co.....            | —  | —              | —  | —              | —  | —              | —  |
| Exeter & Hampton Electric Co.....   | —  | —              | —  | —              | —  | —              | —  |
| Granite State Electric Co.....      | 2,582                                      | 19,774         | —  | —              | —  | —              | —  |
| Great Bay Power Corp.....           | —  | —              | —  | —              | —  | —              | —  |
| North Atlantic Energy Corp.....     | —  | 2,603,573      | —  | —              | —  | —              | —  |
| Public Service Co of NH.....        | —  | 13,848,094     | —  | —              | —  | —              | —  |
| UNTIL Power Corp.....               | 1,327,674                                  | 4,940,034      | —  | —              | —  | —              | —  |
| <b>New Jersey</b>                   |  |                |  |                |  |                |  |
| Atlantic City Electric Co.....      | —  | —              | —  | —              | —  | —              | —  |
| Jersey Central Power&Light Co.....  | —  | —              | —  | —              | —  | —              | —  |
| Public Service Electric&Gas Co..... | —  | 2,572,105      | —  | —              | —  | —              | —  |
| Rockland Electric Co.....           | —  | —              | —  | —              | —  | —              | —  |
| <b>New Mexico</b>                   |  |                |  |                |  |                |  |
| Public Service Co of NM.....        | 451,109                                    | —              | 574,726                                    | —              | 14,764                                     | —              | —  |
| <b>New York</b>                     |  |                |  |                |  |                |  |
| Central Hudson Gas & Elec Corp..... | 26,322                                     | 2,364,988      | —  | —              | 663,655                                    | 2,206,061      | —  |
| Long Island Lighting Co.....        | —  | 16,462,775     | —  | —              | 2,758,906                                  | 27,706,906     | —  |
| Long Sault Inc.....                 | —  | —              | —  | —              | —  | —              | —  |
| New York State Elec & Gas Corp..... | 10,737,977                                 | 17,531,230     | —  | —              | —  | 1,889,901      | —  |
| Niagara Mohawk Power Corp.....      | —  | —              | —  | —              | 59,134                                     | 436,701        | —  |
| Orange & Rockland Utils Inc.....    | 1,139,029                                  | 2,693,664      | —  | —              | —  | 479,200        | —  |
| Rochester Gas & Electric Corp.....  | —  | 12,546,955     | —  | —              | —  | 3,485,104      | —  |
| <b>North Carolina</b>               |  |                |  |                |  |                |  |
| Carolina Power & Light Co.....      | 792,175                                    | 190,555        | —  | 38,659         | —  | 33,796         | —  |
| Duke Power Co.....                  | —  | —              | —  | —              | 118,745                                    | 826,260        | —  |
| <b>North Dakota</b>                 |  |                |  |                |  |                |  |
| MDU Resources Group Inc.....        | —  | —              | 400,327                                    | 400,251        | —  | —              | —  |
| <b>Ohio</b>                         |  |                |  |                |  |                |  |
| Cincinnati Gas & Electric Co.....   | 153,393                                    | 173,779        | 832  | 3,924          | —  | —              | —  |
| Cleveland Electric Illum Co.....    | 15,988                                     | 18,042         | —  | —              | —  | —              | —  |
| Columbus Southern Power Co.....     | 248,669                                    | 541,273        | —  | —              | —  | —              | —  |
| Dayton Power & Light Co.....        | —  | —              | —  | —              | —  | —              | —  |
| Ohio Power Co.....                  | 422,897                                    | 2,154,771      | —  | —              | —  | —              | —  |
| Toledo Edison Co.....               | 51,339                                     | 57,685         | —  | —              | —  | —              | —  |
| <b>Oklahoma</b>                     |  |                |  |                |  |                |  |
| Public Service Co of Oklahoma.....  | —  | 40,112         | —  | —              | —  | —              | —  |
| <b>Oregon</b>                       |  |                |  |                |  |                |  |
| PacifiCorp.....                     | 2,407,817                                  | 18,338,877     | 10,352,060                                 | 34,441,900     | 2,394,969                                  | 601,712        | 286,647                                    |
| Portland General Electric Co.....   | 1,195,277                                  | 2,500,603      | 6,427,760                                  | 26,622,071     | 1,200                                      | 3,420          | 28,411                                     |
| <b>Pennsylvania</b>                 |  |                |  |                |  |                |  |
| Duquesne Light Co.....              | —  | 5,411,140      | —  | —              | —  | —              | —  |
| Metropolitan Edison Co.....         | —  | 82,602         | —  | —              | —  | —              | —  |
| Pennsylvania Electric Co.....       | 1,774,999                                  | 2,201,192      | —  | —              | —  | —              | —  |
| Pennsylvania Power & Light Co.....  | 6,342,469                                  | 75,404         | —  | —              | —  | —              | —  |
| West Penn Power Co.....             | 2,149,516                                  | 7,306,124      | —  | —              | —  | —              | 244,381                                    |
| <b>Rhode Island</b>                 |  |                |  |                |  |                |  |
| Narragansett Electric Co.....       | —  | 1,255,554      | —  | —              | —  | —              | —  |

See notes and footnotes at end of table.

**Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                     | Municipal      | Cooperative                                |                | Other <sup>1</sup>                         |                | Total                                      |                |
|-------------------------------------|----------------|--|----------------|--|----------------|--|----------------|
|                                     | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) |
| <b>Massachusetts</b>                |                |  |                |  |                |  |                |
| Montaup Electric Co.....            | 177,587        | —  | —              | —  | 555,600        | —  | 1,190,011      |
| New England Power Co.....           | —              | —  | 1,027,294      | 469,915                                    | 1,795,308      | 4,365,953                                  | 30,044,020     |
| Western Massachusetts Elec Co.....  | 85,487         | —  | —              | 185,622                                    | 1,080,417      | 185,622                                    | 6,315,363      |
| <b>Minnesota</b>                    |                |  |                |  |                |  |                |
| Minnesota Power & Light Co.....     | —              | 7,930                                      | 145,551        | —  | —              | 7,930                                      | 145,551        |
| Northern States Power Co.....       | —              | 456,674                                    | 274,279        | —  | 4,037,920      | 3,104,814                                  | 6,909,305      |
| Otter Tail Power Co.....            | —              | —  | —              | —  | —              | —  | 1,176,929      |
| <b>Missouri</b>                     |                |  |                |  |                |  |                |
| Empire District Electric Co.....    | —              | —  | —              | 650  | 2,092          | 652,343                                    | 1,135,177      |
| Kansas City Power & Light Co.....   | 160,650        | —  | —              | —  | —              | —  | 743,916        |
| St Joseph Light & Power Co.....     | —              | 1,932                                      | 15,600         | —  | —              | 3,637                                      | 19,453         |
| Union Electric Co.....              | —              | 239,569                                    | —              | —  | —              | 424,664                                    | 587,695        |
| UtiliCorp United Inc.....           | —              | 32,497                                     | 415,599        | 21,823                                     | 13,470         | 163,286                                    | 2,726,768      |
| <b>Montana</b>                      |                |  |                |  |                |  |                |
| Montana Power Co.....               | —              | 10,433                                     | 34,959         | —  | 280            | 1,576,550                                  | 5,437,512      |
| <b>Nevada</b>                       |                |  |                |  |                |  |                |
| Nevada Power Co.....                | 21,800         | —  | —              | —  | —              | 79,716                                     | 226,057        |
| Sierra Pacific Power Co.....        | 13,655         | 15,125                                     | 7,562          | 3,553                                      | —              | 507,562                                    | 2,144,871      |
| <b>New Hampshire</b>                |                |  |                |  |                |  |                |
| Concord Electric Co.....            | —              | —  | —              | —  | —              | —  | —              |
| Exeter & Hampton Electric Co.....   | —              | —  | —              | —  | —              | —  | —              |
| Granite State Electric Co.....      | —              | —  | —              | —  | —              | 2,582                                      | 19,774         |
| Great Bay Power Corp.....           | —              | —  | —              | —  | —              | —  | —              |
| North Atlantic Energy Corp.....     | —              | —  | —              | —  | —              | —  | 2,603,573      |
| Public Service Co of NH.....        | —              | —  | 155,974        | 282,208                                    | 2,537,487      | 282,208                                    | 16,541,555     |
| UNITIL Power Corp.....              | —              | —  | —              | 629,622                                    | 644,849        | 1,957,296                                  | 5,584,883      |
| <b>New Jersey</b>                   |                |  |                |  |                |  |                |
| Atlantic City Electric Co.....      | —              | —  | —              | —  | —              | —  | —              |
| Jersey Central Power&Light Co.....  | —              | —  | —              | —  | 11,885,955     | —  | 11,885,955     |
| Public Service Electric&Gas Co..... | 17,010         | —  | —              | —  | -5,338         | —  | 2,583,777      |
| Rockland Electric Co.....           | —              | —  | —              | —  | —              | —  | —              |
| <b>New Mexico</b>                   |                |  |                |  |                |  |                |
| Public Service Co of NM.....        | —              | 31,459                                     | —              | —  | —              | 1,072,058                                  | —              |
| <b>New York</b>                     |                |  |                |  |                |  |                |
| Central Hudson Gas & Elec Corp..... | —              | —  | —              | 3,300                                      | -185,457       | 693,277                                    | 4,385,592      |
| Long Island Lighting Co.....        | —              | —  | —              | 790,205                                    | 2,302,601      | 3,549,111                                  | 46,472,282     |
| Long Sault Inc.....                 | —              | —  | —              | —  | —              | —  | —              |
| New York State Elec & Gas Corp..... | —              | —  | —              | —  | 354,769        | 10,737,977                                 | 19,775,900     |
| Niagara Mohawk Power Corp.....      | 595            | —  | —              | 1,547,592                                  | 1,281,738      | 1,606,726                                  | 1,719,034      |
| Orange & Rockland Utils Inc.....    | —              | —  | —              | —  | —              | 1,139,029                                  | 3,172,864      |
| Rochester Gas & Electric Corp.....  | —              | —  | —              | —  | —              | —  | 16,032,059     |
| <b>North Carolina</b>               |                |  |                |  |                |  |                |
| Carolina Power & Light Co.....      | —              | —  | —              | —  | 588            | 792,175                                    | 263,598        |
| Duke Power Co.....                  | —              | 53,493                                     | 177,946        | —  | —              | 172,238                                    | 1,004,206      |
| <b>North Dakota</b>                 |                |  |                |  |                |  |                |
| MDU Resources Group Inc.....        | —              | 2,039                                      | 3,453          | —  | 20,490         | 402,366                                    | 424,194        |
| <b>Ohio</b>                         |                |  |                |  |                |  |                |
| Cincinnati Gas & Electric Co.....   | —              | 207,579                                    | 42,747         | 212  | 848            | 362,016                                    | 221,298        |
| Cleveland Electric Illum Co.....    | —              | —  | —              | —  | —              | 15,988                                     | 18,042         |
| Columbus Southern Power Co.....     | —              | —  | —              | —  | 30,591,120     | 248,669                                    | 31,132,393     |
| Dayton Power & Light Co.....        | —              | —  | —              | —  | —              | —  | —              |
| Ohio Power Co.....                  | —              | —  | —              | —  | 12,532,044     | 422,897                                    | 14,686,815     |
| Toledo Edison Co.....               | —              | —  | —              | 8,134                                      | 27,766         | 59,473                                     | 85,451         |
| <b>Oklahoma</b>                     |                |  |                |  |                |  |                |
| Public Service Co of Oklahoma.....  | —              | —  | —              | —  | 4,677,187      | —  | 4,717,299      |
| <b>Oregon</b>                       |                |  |                |  |                |  |                |
| PacifiCorp.....                     | -120,814       | 264,625                                    | 2,178,559      | 586,852                                    | 931,760        | 16,292,970                                 | 56,371,994     |
| Portland General Electric Co.....   | 221,027        | —  | 765            | —  | 1,115,454      | 7,652,648                                  | 30,463,340     |
| <b>Pennsylvania</b>                 |                |  |                |  |                |  |                |
| Duquesne Light Co.....              | —              | —  | —              | —  | —              | —  | 5,411,140      |
| Metropolitan Edison Co.....         | —              | —  | —              | —  | 3,435,424      | —  | 3,518,026      |
| Pennsylvania Electric Co.....       | —              | —  | —              | —  | —              | 1,774,999                                  | 2,201,192      |
| Pennsylvania Power & Light Co.....  | —              | —  | —              | —  | —              | 6,342,469                                  | 75,404         |
| West Penn Power Co.....             | —              | —  | —              | 3,577,128                                  | 5,330          | 5,971,025                                  | 7,311,454      |
| <b>Rhode Island</b>                 |                |  |                |  |                |  |                |
| Narragansett Electric Co.....       | —              | —  | —              | —  | —              | —  | 1,255,554      |

See notes and footnotes at end of table.



**Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                      | Investor-Owned                             |                | Federal                                    |                | State and Other Government                 |                | Municipal                                  |
|--------------------------------------|--|----------------|--|----------------|--|----------------|--|
|                                      | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> |
| <b>South Dakota</b>                  |  |                |  |                |  |                |  |
| Black Hills Corp .....               | —  | —              | —  | —              | —  | —              | —  |
| Northwestern Public Service Co ..... | —  | —              | 255,571                                    | 661,029        | —  | —              | —  |
| <b>Texas</b>                         |  |                |  |                |  |                |  |
| Central Power & Light Co .....       | —  | 5,846,567      | —  | —              | —  | 350,513        | —  |
| El Paso Electric Co .....            | 334,243                                    | 708,705        | —  | —              | 139,357                                    | 1,898,628      | —  |
| Entergy Gulf States Inc .....        | —  | —              | —  | —              | —  | —              | —  |
| Houston Lighting & Power Co .....    | 201,943                                    | 60,587         | —  | —              | 132,090                                    | 59,421         | 2,015,886                                  |
| Southwestern Electric Serv Co .....  | —  | 1,896,471      | —  | —              | —  | 187,836        | —  |
| Southwestern Public Service Co ..... | 119,553                                    | 776,904        | —  | —              | —  | —              | —  |
| Texas Utilities Electric Co .....    | 104,496                                    | 11,391,416     | —  | —              | 33,187                                     | 240,227        | 188,135                                    |
| Texas-New Mexico Power Co .....      | 168,874                                    | 6,303,233      | —  | —              | —  | 418,663        | —  |
| West Texas Utilities Co .....        | —  | —              | —  | —              | —  | —              | —  |
| <b>Vermont</b>                       |  |                |  |                |  |                |  |
| Central Vermont Pub Serv Corp .....  | 2,442,974                                  | 14,286,149     | —  | —              | 8,878                                      | 211,512        | —  |
| Green Mountain Power Corp .....      | 1,158,782                                  | 4,269,059      | —  | —              | —  | 273,094        | 34,841                                     |
| <b>Virginia</b>                      |  |                |  |                |  |                |  |
| Appalachian Power Co .....           | 515,399                                    | 1,108,883      | —  | —              | —  | —              | —  |
| Virginia Electric & Power Co .....   | 37,292                                     | 221,919        | —  | —              | 18,050                                     | 28,678         | —  |
| <b>Washington</b>                    |  |                |  |                |  |                |  |
| Puget Sound Power & Light Co .....   | 4,004                                      | -1,459,463     | 10,842,841                                 | 32,680,343     | 1,370                                      | -8,215         | 420  |
| Washington Water Power Co .....      | 354,883                                    | 1,481,866      | 1,320,604                                  | 9,065,386      | 39,442                                     | 51,581         | —  |
| <b>West Virginia</b>                 |  |                |  |                |  |                |  |
| Monongahela Power Co .....           | 1,182,843                                  | —              | —  | —              | —  | —              | 134,445                                    |
| <b>Wisconsin</b>                     |  |                |  |                |  |                |  |
| Consolidated Water Power Co .....    | 3,723                                      | 9,956          | —  | —              | —  | —              | —  |
| Madison Gas & Electric Co .....      | 127,990                                    | 464,511        | —  | —              | —  | —              | —  |
| Wisconsin Electric Power Co .....    | 700,451                                    | -285,162       | —  | —              | —  | —              | 3,161                                      |
| Wisconsin Power & Light Co .....     | 2,215,066                                  | 3,926,337      | —  | —              | —  | —              | —  |
| Wisconsin Public Service Corp .....  | 89,542                                     | 40,691         | —  | —              | —  | —              | —  |

See notes and footnotes at end of table.

**Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996 (Continued)**

| State / Utility                      | Municipal      | Cooperative                                |                | Other <sup>1</sup>                         |                | Total                                      |                |
|--------------------------------------|----------------|--|----------------|--|----------------|--|----------------|
|                                      | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) | Wheeled Energy (thousand kWh) <sup>2</sup> | Cost (dollars) |
| <b>South Dakota</b>                  |                |  |                |  |                |  |                |
| Black Hills Corp .....               | —              | —  | —              | —  | —              | —  | —              |
| Northwestern Public Service Co ..... | —              | 547  | 1,914          | —  | —              | 256,118                                    | 662,943        |
| <b>Texas</b>                         |                |  |                |  |                |  |                |
| Central Power & Light Co .....       | 140,110        | —  | 214            | —  | 65,103         | —  | 6,402,507      |
| El Paso Electric Co .....            | —              | —  | —              | —  | —              | 473,600                                    | 2,607,333      |
| Entergy Gulf States Inc .....        | —              | —  | —              | —  | 13,421,949     | —  | 13,421,949     |
| Houston Lighting & Power Co .....    | 29,117         | 33,313                                     | 99,474         | 221,009                                    | 31,979         | 2,604,241                                  | 280,578        |
| Southwestern Electric Serv Co .....  | 101,725        | —  | 52,840         | —  | —              | —  | 2,238,872      |
| Southwestern Public Service Co ..... | —              | 4,093                                      | —              | 2,162                                      | 6,061          | 125,808                                    | 782,965        |
| Texas Utilities Electric Co .....    | 1,114,225      | 17,574                                     | -110,141       | 59,279                                     | -12,480,723    | 402,671                                    | 155,004        |
| Texas-New Mexico Power Co .....      | 448,690        | —  | 12,928         | 2,268,711                                  | 51,886         | 2,437,585                                  | 7,235,400      |
| West Texas Utilities Co .....        | —              | —  | —              | —  | 1,662,536      | —  | 1,662,536      |
| <b>Vermont</b>                       |                |  |                |  |                |  |                |
| Central Vermont Pub Serv Corp .....  | 1,576          | —  | 6,823          | —  | —              | 2,451,852                                  | 14,506,060     |
| Green Mountain Power Corp .....      | 85,183         | —  | —              | 593,767                                    | 4,532,035      | 1,787,390                                  | 9,159,371      |
| <b>Virginia</b>                      |                |  |                |  |                |  |                |
| Appalachian Power Co .....           | —              | 6,269                                      | 18,029         | —  | 6,925,468      | 521,668                                    | 8,052,380      |
| Virginia Electric & Power Co .....   | —              | 6,197                                      | 9,816          | 51,437                                     | 202,897        | 112,976                                    | 463,310        |
| <b>Washington</b>                    |                |  |                |  |                |  |                |
| Puget Sound Power & Light Co .....   | 37,548         | —  | —              | 784  | -262,350       | 10,849,419                                 | 30,987,863     |
| Washington Water Power Co .....      | —              | —  | 32,112         | —  | —              | 1,714,929                                  | 10,630,945     |
| <b>West Virginia</b>                 |                |  |                |  |                |  |                |
| Monongahela Power Co .....           | —              | —  | —              | 1,968,260                                  | 2,935          | 3,285,548                                  | 2,935          |
| <b>Wisconsin</b>                     |                |  |                |  |                |  |                |
| Consolidated Water Power Co .....    | —              | —  | —              | —  | —              | 3,723                                      | 9,956          |
| Madison Gas & Electric Co .....      | —              | —  | —              | —  | —              | 127,990                                    | 464,511        |
| Wisconsin Electric Power Co .....    | —              | —  | —              | —  | —              | 703,612                                    | -285,162       |
| Wisconsin Power & Light Co .....     | —              | —  | —              | 264,868                                    | 326,687        | 2,479,934                                  | 4,253,024      |
| Wisconsin Public Service Corp .....  | —              | —  | —              | —  | —              | 89,542                                     | 40,691         |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

<sup>2</sup> Value presented is the greater of the received or delivered quantity.

—Not Applicable

Notes: •Wheeling (transmission services) is reported in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. •For identification purposes, the utilities are listed in the State in which the corporate office is located. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

# 3. Bulk Power Transactions by Federal and Other Publicly Owned Utilities

## Overview

This chapter presents electricity trade data for publicly owned utilities that report on Form EIA-412, "Annual Report of Public Electric Utilities." These data are separated into three types of public ownership: Federal, State and Other Government Utilities, and Municipalities. Summary totals by calendar year (except for Federal) cannot be provided because filings by utilities were based on different fiscal years and ending months.

Individual transactions by public utilities with other utilities by class of ownership are identified for purchased power and sales for resale data. Form EIA-412 collects only aggregate information (on a sample basis) on exchanges and wheeling in the "Energy Account Balance" schedule. Summary data from Form EIA-861, "Annual Electric Utility Report," are used to provide complete coverage for the public utilities because it is collected from all electric utilities. However, Form EIA-861 does not identify individual transaction partners.

## Tables

This chapter presents cost, revenue, and quantity data on purchased power and sales for resale for the following types of public utilities.

- Federal utilities (Tables 25 and 26)
- State and other government utilities (Tables 27 and 28)
- Municipalities (Tables 29 and 30)
- Electricity purchases by publicly owned utilities not listed elsewhere (Table 31).

Tables 25 through 30 provide information on the total cost and revenue associated with the total quantity of purchased power and sales for resale. Other utilities which do not report on the Form EIA-412 because of their small size are shown in Table 31. Table 32 pro-

vides information on exchanges and wheeling for public electric utilities. In 1990, Form EIA-412 was updated to collect data on the different categories of power and energy and the associated value of electric utility trade. However, the value of the categories were not subdivided into Demand, Energy, and Other for revenues and costs.

The public utilities are listed by State according to the mailing addresses of their administrative offices. The fiscal-year ending date for each public utility is also included in the tables. Federal utilities are listed by major project, office, or administrative reporting level.

## Summary

Federal power authorities dominate electric trade by publicly owned utilities. However, regional differences among the Federal authorities exist because of legal authority given and restrictions placed in the Federal laws that guide their activities. Many of these differences are due to Federal flood prevention and irrigation requirements at hydroelectric projects or the limitations of corresponding transmission system operated by the power marketing authorities.

State power agencies and other public authorities purchase large amounts of electricity for resale to their wholesale customers. Some of these organizations have been set up to acquire power for special in-State or regional projects, such as water transfer for irrigation and/or public consumption. In other cases, States have established power-brokering agencies to purchase bulk power for redistribution to member municipalities and cooperatives at lower costs.

Municipalities purchase far more power than they sell for resale. Their purchases are almost always redistributed to the ultimate consumers of electricity. Those municipal utilities involved in sales for resale usually have large generating capability, frequently including hydroelectric facilities and/or jointly owned thermal generators.

**Table 25. Electricity Purchases by Federal Utilities, Fiscal Year Ending September 30, 1996**

| State / Utility                           | Source of Electricity    |                    |                          |                   |                            |                  |                          |
|---|--------------------------|--------------------|--------------------------|-------------------|----------------------------|------------------|--------------------------|
|   | Investor-Owned           |                    | Federal                  |                   | State and Other Government |                  | Municipal                |
|   | Purchases (thousand kWh) | Cost (dollars)     | Purchases (thousand kWh) | Cost (dollars)    | Purchases (thousand kWh)   | Cost (dollars)   | Purchases (thousand kWh) |
| <b>Colorado</b>                           |                          |                    |                          |                   |                            |                  |                          |
| Western Area Power Admin.....             | 3,221,531                | 94,792,019         | 16,407                   | 156,000           | 169,051                    | 2,122,967        | 659,548                  |
| <b>Georgia</b>                            |                          |                    |                          |                   |                            |                  |                          |
| Southeastern Power Admin.....             | 57,984                   | 1,039,955          | —                        | —                 | —                          | —                | —                        |
| <b>Illinois</b>                           |                          |                    |                          |                   |                            |                  |                          |
| U S Army Corps of Engineers .....         | —                        | —                  | —                        | —                 | —                          | —                | —                        |
| <b>Montana</b>                            |                          |                    |                          |                   |                            |                  |                          |
| USBIA-Mission Valley Power.....           | 84,764                   | 1,316,856          | 232,187                  | 6,775,290         | —                          | —                | —                        |
| <b>Oklahoma</b>                           |                          |                    |                          |                   |                            |                  |                          |
| Southwestern Power Admin.....             | 100,219                  | 2,897,288          | —                        | —                 | —                          | —                | —                        |
| <b>Oregon</b>                             |                          |                    |                          |                   |                            |                  |                          |
| Bonneville Power Admin <sup>1</sup> ..... | —                        | —                  | —                        | —                 | —                          | —                | —                        |
| <b>Tennessee</b>                          |                          |                    |                          |                   |                            |                  |                          |
| Tennessee Valley Authority .....          | —                        | —                  | 3,112,385                | 23,965,968        | —                          | —                | —                        |
| <b>U.S. Total</b> .....                   | <b>3,464,498</b>         | <b>100,046,118</b> | <b>3,360,979</b>         | <b>30,897,258</b> | <b>169,051</b>             | <b>2,122,967</b> | <b>659,548</b>           |

See notes and footnotes at end of table.

**Table 25. Electricity Purchases by Federal Utilities, Fiscal Year Ending September 30, 1996 (Continued)**

| State / Utility                           | Source of Electricity |                          |                |                          |                |                          |                |
|---|-----------------------|--------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
|   | Municipal             | Cooperative              |                | Other <sup>2</sup>       |                | Total                    |                |
|   | Cost (dollars)        | Purchases (thousand kWh) | Cost (dollars) | Purchases (thousand kWh) | Cost (dollars) | Purchases (thousand kWh) | Cost (dollars) |
| <b>Colorado</b>                           |                       |                          |                |                          |                |                          |                |
| Western Area Power Admin.....             | 30,249,595            | 1,721,607                | 23,317,819     | 300,936                  | 17,367,042     | 6,089,080                | 168,005,442    |
| <b>Georgia</b>                            |                       |                          |                |                          |                |                          |                |
| Southeastern Power Admin.....             | —                     | 52,772                   | 871,204        | 80,995                   | 1,186,249      | 191,751                  | 3,097,408      |
| <b>Illinois</b>                           |                       |                          |                |                          |                |                          |                |
| U S Army Corps of Engineers .....         | —                     | —                        | —              | —                        | —              | —                        | —              |
| <b>Montana</b>                            |                       |                          |                |                          |                |                          |                |
| USBIA-Mission Valley Power.....           | —                     | —                        | —              | 1,329                    | 34,909         | 318,280                  | 8,127,055      |
| <b>Oklahoma</b>                           |                       |                          |                |                          |                |                          |                |
| Southwestern Power Admin.....             | —                     | —                        | —              | 1,802                    | —              | 102,021                  | 2,897,288      |
| <b>Oregon</b>                             |                       |                          |                |                          |                |                          |                |
| Bonneville Power Admin <sup>1</sup> ..... | —                     | —                        | —              | 1,057,390                | --             | 2,569,446                | --             |
| <b>Tennessee</b>                          |                       |                          |                |                          |                |                          |                |
| Tennessee Valley Authority .....          | —                     | —                        | —              | 1,817,012                | 2,290,818      | 4,929,397                | 26,256,786     |
| <b>U.S. Total</b> .....                   | 30,249,595            | 1,774,379                | 24,189,023     | 3,259,464                | 20,953,403     | 14,199,975               | 208,458,364    |

<sup>1</sup> Bonneville Power Administration did not report utility purchases by class of ownership for 1996. Total purchases from utilities equaled 1,512,056 thousand kWh's.

<sup>2</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •Federal authorities use different accounting methods for reporting energy received from Federal generating assets; the energy may be reported as generation or purchases. •For identification purposes, the public utilities are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities."

**Table 26. Electricity Sales for Resale by Federal Utilities, Fiscal Year Ending September 30, 1996**

| State / Utility                   | Purchaser of Electricity        |                   |                                 |                   |                                 |                    |                                 |
|-----------------------------------|---------------------------------|-------------------|---------------------------------|-------------------|---------------------------------|--------------------|---------------------------------|
|                                   | Investor-Owned                  |                   | Federal                         |                   | State and Other Government      |                    | Municipal                       |
|                                   | Sales for Resale (thousand kWh) | Revenue (dollars) | Sales for Resale (thousand kWh) | Revenue (dollars) | Sales for Resale (thousand kWh) | Revenue (dollars)  | Sales for Resale (thousand kWh) |
| <b>Colorado</b>                   |                                 |                   |                                 |                   |                                 |                    |                                 |
| Western Area Power Admin.....     | 5,899,312                       | 79,287,013        | —                               | —                 | 12,380,804                      | 227,833,212        | 10,137,656                      |
| <b>Georgia</b>                    |                                 |                   |                                 |                   |                                 |                    |                                 |
| Southeastern Power Admin.....     | 37,459                          | 352,446           | 2,926,500                       | 23,963,968        | 322,537                         | 6,046,978          | 1,620,778                       |
| <b>Illinois</b>                   |                                 |                   |                                 |                   |                                 |                    |                                 |
| U S Army Corps of Engineers ..... | 138,458                         | 1,751,000         | —                               | —                 | —                               | —                  | —                               |
| <b>Montana</b>                    |                                 |                   |                                 |                   |                                 |                    |                                 |
| USBIA-Mission Valley Power.....   | —                               | —                 | —                               | —                 | —                               | —                  | —                               |
| <b>Oklahoma</b>                   |                                 |                   |                                 |                   |                                 |                    |                                 |
| Southwestern Power Admin.....     | —                               | —                 | 21,485                          | 557,483           | 105,707                         | 1,791,290          | 1,142,761                       |
| <b>Oregon</b>                     |                                 |                   |                                 |                   |                                 |                    |                                 |
| Bonneville Power Admin.....       | 1,955,941                       | —                 | —                               | —                 | 815,409                         | —                  | 2,530                           |
| <b>Tennessee</b>                  |                                 |                   |                                 |                   |                                 |                    |                                 |
| Tennessee Valley Authority.....   | —                               | —                 | —                               | —                 | —                               | —                  | 82,019,358                      |
| <b>U.S. Total</b> .....           | <b>8,031,170</b>                | <b>81,390,459</b> | <b>2,947,985</b>                | <b>24,521,451</b> | <b>13,624,457</b>               | <b>235,671,480</b> | <b>94,923,083</b>               |

See notes and footnotes at end of table.

**Table 26. Electricity Sales for Resale by Federal Utilities, Fiscal Year Ending September 30, 1996 (Continued)**

| State / Utility                   | Purchaser of Electricity |                                 |                    |                                 |                      |                                 |                      |
|-----------------------------------|--------------------------|---------------------------------|--------------------|---------------------------------|----------------------|---------------------------------|----------------------|
|                                   | Municipal                | Cooperative                     |                    | Other <sup>1</sup>              |                      | Total                           |                      |
|                                   | Revenue (dollars)        | Sales for Resale (thousand kWh) | Revenue (dollars)  | Sales for Resale (thousand kWh) | Revenue (dollars)    | Sales for Resale (thousand kWh) | Revenue (dollars)    |
| <b>Colorado</b>                   |                          |                                 |                    |                                 |                      |                                 |                      |
| Western Area Power Admin.....     | 158,670,234              | 9,460,102                       | 160,636,711        | 656,178                         | 8,511,944            | 38,534,052                      | 634,939,114          |
| <b>Georgia</b>                    |                          |                                 |                    |                                 |                      |                                 |                      |
| Southeastern Power Admin.....     | 45,385,004               | 3,794,941                       | 88,705,276         | —                               | —                    | 8,702,215                       | 164,453,672          |
| <b>Illinois</b>                   |                          |                                 |                    |                                 |                      |                                 |                      |
| U S Army Corps of Engineers ..... | —                        | —                               | —                  | —                               | —                    | 138,458                         | 1,751,000            |
| <b>Montana</b>                    |                          |                                 |                    |                                 |                      |                                 |                      |
| USBIA-Mission Valley Power.....   | —                        | —                               | —                  | —                               | —                    | —                               | —                    |
| <b>Oklahoma</b>                   |                          |                                 |                    |                                 |                      |                                 |                      |
| Southwestern Power Admin.....     | 23,212,044               | 2,595,246                       | 55,812,384         | 166,235                         | 4,325,486            | 4,031,434                       | 85,698,687           |
| <b>Oregon</b>                     |                          |                                 |                    |                                 |                      |                                 |                      |
| Bonneville Power Admin.....       | —                        | 113,293                         | —                  | 55,472,171                      | 1,104,363,895        | 58,359,344                      | 1,104,363,895        |
| <b>Tennessee</b>                  |                          |                                 |                    |                                 |                      |                                 |                      |
| Tennessee Valley Authority.....   | 3,377,591,727            | 4,090,776                       | 17,598,387         | 469,743                         | 19,616,893           | 86,579,877                      | 3,414,807,007        |
| <b>U.S. Total</b> .....           | <b>3,604,859,009</b>     | <b>20,054,358</b>               | <b>322,752,758</b> | <b>56,764,327</b>               | <b>1,136,818,218</b> | <b>196,345,380</b>              | <b>5,406,013,375</b> |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the public utilities are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities."

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | Municipal                   |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Arizona</b>                               |                             |                   |                             |                   |                             |                   |
| Arizona Power Authority/June 30              |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 792,112                     | 18,134,664        | —                           | —                 |
| Total Power .....                            | —                           | —                 | 792,112                     | 18,134,664        | —                           | —                 |
| Electrical Dist No2 Pinal Cnty/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Navajo Tribal Utility Auth/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 456,245                     | 17,675,320        | 120,626                     | 2,582,004         | —                           | —                 |
| Total Power .....                            | 456,245                     | 17,675,320        | 120,626                     | 2,582,004         | —                           | —                 |
| Salt River Proj Ag I & P Dist/Apr 30         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 34,855                      | 18,664,309        | 2,425,628                   | 88,777,858        | —                           | —                 |
| Nonfirm Power .....                          | 821,516                     | 9,218,316         | 647,181                     | 6,209,274         | 171,022                     | 2,119,748         |
| Total Power .....                            | 856,371                     | 27,882,625        | 3,072,809                   | 94,987,132        | 171,022                     | 2,119,748         |
| Tohono O 'Odham Utility Auth/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 94,000                      | 4,416,699         | 13,000                      | 122,201           | —                           | —                 |
| Total Power .....                            | 94,000                      | 4,416,699         | 13,000                      | 122,201           | —                           | —                 |
| <b>California</b>                            |                             |                   |                             |                   |                             |                   |
| California Dept-Wtr Resources/June 30        |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 632,213                     | 10,306,497        | 139,409                     | 2,132,897         | 146,958                     | 434,086           |
| Total Power .....                            | 632,213                     | 10,306,497        | 139,409                     | 2,132,897         | 146,958                     | 434,086           |
| Imperial Irrigation District/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 536,991                     | 44,624,111        | 157,059                     | 3,941,605         | 2,025                       | 1,389,155         |
| Nonfirm Power .....                          | 195,435                     | 2,982,683         | 13,585                      | 216,058           | —                           | —                 |
| Total Power .....                            | 732,426                     | 47,606,794        | 170,644                     | 4,157,663         | 2,025                       | 1,389,155         |
| Merced Irrigation District/Dec 31            |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Modesto Irrigation District/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 32,290                      | 1,401,541         | 48,411                      | 985,594           | —                           | —                 |
| Nonfirm Power .....                          | 35,271                      | 1,152,324         | 319,614                     | 3,113,396         | 646,749                     | 18,113,636        |
| Other Power .....                            | 615                         | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | 68,176                      | 2,553,865         | 368,025                     | 4,098,990         | 646,749                     | 18,113,636        |
| MSR Public Power Agency/Dec 31               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 534,170                     | 28,057,168        | —                           | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 212,163                     | 2,620,807         |
| Total Power .....                            | —                           | —                 | 534,170                     | 28,057,168        | 212,163                     | 2,620,807         |
| Northern California Power Agency/June 30     |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 381,267                     | 8,204,454         | 58,610                      | 1,641,285         | 174,694                     | 2,306,160         |
| Total Power .....                            | 381,267                     | 8,204,454         | 58,610                      | 1,641,285         | 174,694                     | 2,306,160         |
| Sacramento Municipal Util Dist/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 410,209                     | 96,594,992        | 2,068,283                   | 48,336,822        | —                           | —                 |
| Nonfirm Power .....                          | 581,275                     | 9,068,830         | 1,295,294                   | 17,040,388        | 122,398                     | 2,024,191         |
| Total Power .....                            | 991,484                     | 105,663,822       | 3,363,577                   | 65,377,210        | 122,398                     | 2,024,191         |
| Southern California P P A/June 30            |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 110,000                     | 1,858,000         | —                           | —                 |
| Total Power .....                            | —                           | —                 | 110,000                     | 1,858,000         | —                           | —                 |
| <b>Colorado</b>                              |                             |                   |                             |                   |                             |                   |
| Arkansas River Power Authority/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 97,893                      | 2,013,547         | —                           | —                 |
| Nonfirm Power .....                          | 2,208                       | 37,560            | 13,061                      | 207,152           | 119,193                     | 3,786,176         |
| Total Power .....                            | 2,208                       | 37,560            | 110,954                     | 2,220,699         | 119,193                     | 3,786,176         |
| Platte River Power Authority/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 730,399                     | 13,435,695        | —                           | —                 |
| Nonfirm Power .....                          | 1,559                       | 27,209            | 6,220                       | 85,985            | —                           | —                 |
| Total Power .....                            | 1,559                       | 27,209            | 736,619                     | 13,521,680        | —                           | —                 |
| <b>Georgia</b>                               |                             |                   |                             |                   |                             |                   |
| Crisp County Power Comm/Dec 31               |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 10,691                      | 409,324           | 31,119                      | 1,122,089         | —                           | —                 |
| Total Power .....                            | 10,691                      | 409,324           | 31,119                      | 1,122,089         | —                           | —                 |
| Municipal Electric Authority/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 1,097,533                   | 18,690,000        | —                           | —                 | —                           | —                 |
| Total Power .....                            | 1,097,533                   | 18,690,000        | —                           | —                 | —                           | —                 |
| <b>Indiana</b>                               |                             |                   |                             |                   |                             |                   |
| Indiana Municipal Power Agency/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 2,067,473                   | 54,465,320        | —                           | —                 | 557,122                     | 23,892,564        |
| Nonfirm Power .....                          | 197,578                     | 2,797,264         | —                           | —                 | 3,928                       | 39,799            |
| Total Power .....                            | 2,265,051                   | 57,262,584        | —                           | —                 | 561,050                     | 23,932,363        |

See notes and footnotes at end of table.



**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Arizona</b>                               |                             |                   |                             |                   |                             |                   |
| Arizona Power Authority/June 30              |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 223,951                     | 3,259,126         | 1,016,063                   | 21,393,790        |
| Total Power .....                            | —                           | —                 | 223,951                     | 3,259,126         | 1,016,063                   | 21,393,790        |
| Electrical Dist No2 Pinal Cnty/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 190,098                     | 5,934,271         | 190,098                     | 5,934,271         |
| Total Power .....                            | —                           | —                 | 190,098                     | 5,934,271         | 190,098                     | 5,934,271         |
| Navajo Tribal Utility Auth/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 576,871                     | 20,257,324        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 576,871                     | 20,257,324        |
| Salt River Proj Ag I & P Dist/Apr 30         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 199,375                     | 19,272,239        | 152,390                     | 2,415,197         | 2,812,248                   | 129,129,603       |
| Nonfirm Power .....                          | 69,805                      | 1,053,385         | 1,043,457                   | 10,536,253        | 2,752,981                   | 29,136,976        |
| Total Power .....                            | 269,180                     | 20,325,624        | 1,195,847                   | 12,951,450        | 5,565,229                   | 158,266,579       |
| Tohono O 'Odham Utility Auth/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 107,000                     | 4,538,900         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 107,000                     | 4,538,900         |
| <b>California</b>                            |                             |                   |                             |                   |                             |                   |
| California Dept-Wtr Resources/June 30        |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 645,266                     | 4,445,276         | 1,563,846                   | 17,318,756        |
| Total Power .....                            | —                           | —                 | 645,266                     | 4,445,276         | 1,563,846                   | 17,318,756        |
| Imperial Irrigation District/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 885,712                     | 35,632,660        | 1,581,787                   | 85,587,531        |
| Nonfirm Power .....                          | —                           | —                 | 102,174                     | 1,189,169         | 311,194                     | 4,387,910         |
| Total Power .....                            | —                           | —                 | 987,886                     | 36,821,829        | 1,892,981                   | 89,975,441        |
| Merced Irrigation District/Dec 31            |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 34,889                      | 784,645           | 34,889                      | 784,645           |
| Total Power .....                            | —                           | —                 | 34,889                      | 784,645           | 34,889                      | 784,645           |
| Modesto Irrigation District/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 916,552                     | 54,928,867        | 997,253                     | 57,316,002        |
| Nonfirm Power .....                          | —                           | —                 | 187,729                     | 13,131,082        | 1,189,363                   | 35,510,438        |
| Other Power .....                            | —                           | —                 | —                           | —                 | 615                         | —                 |
| Total Power .....                            | —                           | —                 | 1,104,281                   | 68,059,949        | 2,187,231                   | 92,826,440        |
| MSR Public Power Agency/Dec 31               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 534,170                     | 28,057,168        |
| Nonfirm Power .....                          | —                           | —                 | 265,864                     | 3,211,388         | 478,027                     | 5,832,195         |
| Total Power .....                            | —                           | —                 | 265,864                     | 3,211,388         | 1,012,197                   | 33,889,363        |
| Northern California Power Agency/June 30     |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 43                          | 585               | 263,908                     | 4,039,484         | 878,522                     | 16,191,968        |
| Total Power .....                            | 43                          | 585               | 263,908                     | 4,039,484         | 878,522                     | 16,191,968        |
| Sacramento Municipal Util Dist/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 1,137,154                   | 19,127,734        | 3,615,646                   | 164,059,548       |
| Nonfirm Power .....                          | —                           | —                 | 877,665                     | 19,115,563        | 2,876,632                   | 47,248,972        |
| Total Power .....                            | —                           | —                 | 2,014,819                   | 38,243,297        | 6,492,278                   | 211,308,520       |
| Southern California P P A/June 30            |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | 93,000            | 110,000                     | 1,951,000         |
| Total Power .....                            | —                           | —                 | —                           | 93,000            | 110,000                     | 1,951,000         |
| <b>Colorado</b>                              |                             |                   |                             |                   |                             |                   |
| Arkansas River Power Authority/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 97,893                      | 2,013,547         |
| Nonfirm Power .....                          | 73,341                      | 2,241,589         | 3,650                       | 51,222            | 211,453                     | 6,323,699         |
| Total Power .....                            | 73,341                      | 2,241,589         | 3,650                       | 51,222            | 309,346                     | 8,337,246         |
| Platte River Power Authority/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 730,399                     | 13,435,695        |
| Nonfirm Power .....                          | 31,299                      | 436,316           | 122,928                     | 2,108,918         | 162,006                     | 2,658,428         |
| Total Power .....                            | 31,299                      | 436,316           | 122,928                     | 2,108,918         | 892,405                     | 16,094,123        |
| <b>Georgia</b>                               |                             |                   |                             |                   |                             |                   |
| Crisp County Power Comm/Dec 31               |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 263,980                     | 10,351,237        | 305,790                     | 11,882,650        |
| Total Power .....                            | —                           | —                 | 263,980                     | 10,351,237        | 305,790                     | 11,882,650        |
| Municipal Electric Authority/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 9,037                       | 436,000           | 1,106,570                   | 19,126,000        |
| Total Power .....                            | —                           | —                 | 9,037                       | 436,000           | 1,106,570                   | 19,126,000        |
| <b>Indiana</b>                               |                             |                   |                             |                   |                             |                   |
| Indiana Municipal Power Agency/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 2,624,595                   | 78,357,884        |
| Nonfirm Power .....                          | 169,080                     | 2,054,920         | 90,578                      | 1,491,110         | 461,164                     | 6,383,093         |
| Total Power .....                            | 169,080                     | 2,054,920         | 90,578                      | 1,491,110         | 3,085,759                   | 84,740,977        |

See notes and footnotes at end of table.

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996  
(Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | Municipal                   |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Kansas</b>                                |                             |                   |                             |                   |                             |                   |
| Kansas Municipal Energy Agency/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 31,946                      | 523,786           | 249,988                     | 8,843,760         |
| Total Power .....                            | —                           | —                 | 31,946                      | 523,786           | 249,988                     | 8,843,760         |
| <b>Louisiana</b>                             |                             |                   |                             |                   |                             |                   |
| Louisiana Energy & Power Auth/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 63,542                      | 1,143,726         | 102,423                     | 6,674,870         |
| Nonfirm Power .....                          | 1,826                       | 29,076            | —                           | —                 | 63,587                      | 1,418,151         |
| Total Power .....                            | 1,826                       | 29,076            | 63,542                      | 1,143,726         | 166,010                     | 8,093,021         |
| <b>Massachusetts</b>                         |                             |                   |                             |                   |                             |                   |
| Mun Wholes Elec Co/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 1,604                       | 168,972           | —                           | —                 | 30,886                      | 1,714,923         |
| Nonfirm Power .....                          | 107,300                     | 2,520,076         | —                           | —                 | 6,077                       | 198,949           |
| Total Power .....                            | 108,904                     | 2,689,048         | —                           | —                 | 36,963                      | 1,913,872         |
| <b>Michigan</b>                              |                             |                   |                             |                   |                             |                   |
| Michigan Public Power Agency/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 389,207                     | 12,160,914        | —                           | —                 | 388,241                     | 12,646,157        |
| Nonfirm Power .....                          | 10                          | 260               | —                           | —                 | 1,602                       | 37,548            |
| Total Power .....                            | 389,217                     | 12,161,174        | —                           | —                 | 389,843                     | 12,683,705        |
| Michigan South Central Pwr Agy/Jun 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 125,429                     | 3,127,677         | —                           | —                 | 11,987                      | 604,876           |
| Nonfirm Power .....                          | 97,313                      | 1,943,424         | —                           | —                 | 5,721                       | 133,326           |
| Total Power .....                            | 222,742                     | 5,071,101         | —                           | —                 | 17,708                      | 738,202           |
| <b>Minnesota</b>                             |                             |                   |                             |                   |                             |                   |
| Minnesota Municipal Power Agny               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 101,699                     | 6,342,846         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | 101,699                     | 6,342,846         |
| Southern Minnesota Mun P Agny/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 64,342                      | 1,036,477         | —                           | —                 | 223,112                     | 8,730,962         |
| Nonfirm Power .....                          | 84,692                      | 1,187,416         | 15,411                      | 235,059           | 22,659                      | 4,399,351         |
| Total Power .....                            | 149,034                     | 2,223,893         | 15,411                      | 235,059           | 245,771                     | 13,130,313        |
| <b>Nebraska</b>                              |                             |                   |                             |                   |                             |                   |
| Cornhusker Public Power Dist/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Dawson County Public Pwr Dist/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Loup River Public Power Dist/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Municipal Energy Agency of NE/Mar 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 156,345                     | 3,422,588         | 171,621                     | 6,324,974         |
| Nonfirm Power .....                          | 62,319                      | 862,984           | —                           | —                 | 10,920                      | 150,345           |
| Total Power .....                            | 62,319                      | 862,984           | 156,345                     | 3,422,588         | 182,541                     | 6,475,319         |
| Nebraska Public Power District/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 724,997                     | 18,023,354        | 12,606                      | 1,454,532         |
| Nonfirm Power .....                          | 235,173                     | 3,816,785         | 42,726                      | 795,180           | 63,614                      | 860,359           |
| Total Power .....                            | 235,173                     | 3,816,785         | 767,723                     | 18,818,534        | 76,220                      | 2,314,891         |
| Norris Public Power District/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Omaha Public Power District/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 407,408                     | 5,720,309         | —                           | 417,600           |
| Total Power .....                            | —                           | —                 | 407,408                     | 5,720,309         | —                           | 417,600           |
| Southern Nebraska Rural P P D/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| <b>Nevada</b>                                |                             |                   |                             |                   |                             |                   |
| Colorado River Comm of Nevada/Jun 30         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 225,206                     | 3,520,612         | 1,494,152                   | 19,055,118        | —                           | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | 225,206                     | 3,520,612         | 1,494,152                   | 19,055,118        | —                           | —                 |
| Overton Power District No 5/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 120,103                     | 3,255,113         | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 5,177                       | 82,547            | —                           | —                 | —                           | —                 |
| Total Power .....                            | 125,280                     | 3,337,660         | —                           | —                 | —                           | —                 |

See notes and footnotes at end of table.

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Kansas</b>                                |                             |                   |                             |                   |                             |                   |
| Kansas Municipal Energy Agency/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 11,572                      | 713,485           | —                           | —                 | 293,506                     | 10,081,031        |
| Total Power .....                            | 11,572                      | 713,485           | —                           | —                 | 293,506                     | 10,081,031        |
| <b>Louisiana</b>                             |                             |                   |                             |                   |                             |                   |
| Louisiana Energy & Power Auth/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 165,965                     | 7,818,596         |
| Nonfirm Power .....                          | 7,910                       | 151,120           | 310,525                     | 6,309,599         | 383,848                     | 7,907,946         |
| Total Power .....                            | 7,910                       | 151,120           | 310,525                     | 6,309,599         | 549,813                     | 15,726,542        |
| <b>Massachusetts</b>                         |                             |                   |                             |                   |                             |                   |
| Mun Wholes Elec Co/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 620,580                     | 27,412,278        | 653,070                     | 29,296,173        |
| Nonfirm Power .....                          | —                           | —                 | 155,659                     | 10,982,515        | 269,036                     | 13,701,540        |
| Total Power .....                            | —                           | —                 | 776,239                     | 38,394,793        | 922,106                     | 42,997,713        |
| <b>Michigan</b>                              |                             |                   |                             |                   |                             |                   |
| Michigan Public Power Agency/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 777,448                     | 24,807,071        |
| Nonfirm Power .....                          | —                           | —                 | 984,950                     | 6,624,408         | 986,562                     | 6,662,216         |
| Total Power .....                            | —                           | —                 | 984,950                     | 6,624,408         | 1,764,010                   | 31,469,287        |
| Michigan South Central Pwr Agy/Jun 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 139,434                     | 2,703,936         | 276,850                     | 6,436,489         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 103,034                     | 2,076,750         |
| Total Power .....                            | —                           | —                 | 139,434                     | 2,703,936         | 379,884                     | 8,513,239         |
| <b>Minnesota</b>                             |                             |                   |                             |                   |                             |                   |
| Minnesota Municipal Power Agny               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 250,669                     | 10,394,179        | —                           | 180,000           | 352,368                     | 16,917,025        |
| Nonfirm Power .....                          | 442,276                     | 6,180,036         | —                           | —                 | 442,276                     | 6,180,036         |
| Total Power .....                            | 692,945                     | 16,574,215        | —                           | 180,000           | 794,644                     | 23,097,061        |
| Southern Minnesota Mun P Agny/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 8,706                       | 186,912           | 296,160                     | 9,954,351         |
| Nonfirm Power .....                          | 76,410                      | 1,216,153         | 59,449                      | 913,848           | 258,621                     | 7,951,827         |
| Total Power .....                            | 76,410                      | 1,216,153         | 68,155                      | 1,100,760         | 554,781                     | 17,906,178        |
| <b>Nebraska</b>                              |                             |                   |                             |                   |                             |                   |
| Cornhusker Public Power Dist/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 232,669                     | 7,717,464         | —                           | —                 | 232,669                     | 7,717,464         |
| Total Power .....                            | 232,669                     | 7,717,464         | —                           | —                 | 232,669                     | 7,717,464         |
| Dawson County Public Pwr Dist/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 293,947                     | 10,540,583        | —                           | —                 | 293,947                     | 10,540,583        |
| Total Power .....                            | 293,947                     | 10,540,583        | —                           | —                 | 293,947                     | 10,540,583        |
| Loup River Public Power Dist/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 1,136,487                   | 34,940,117        | 1,136,487                   | 34,940,117        |
| Total Power .....                            | —                           | —                 | 1,136,487                   | 34,940,117        | 1,136,487                   | 34,940,117        |
| Municipal Energy Agency of NE/Mar 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 68,373                      | 1,940,460         | 47,150                      | 1,396,113         | 443,489                     | 13,084,135        |
| Nonfirm Power .....                          | 99,994                      | 1,284,986         | 322,634                     | 4,603,056         | 495,867                     | 6,901,371         |
| Total Power .....                            | 168,367                     | 3,225,446         | 369,784                     | 5,999,169         | 939,356                     | 19,985,506        |
| Nebraska Public Power District/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 11,306,704                  | 275,515,629       | 12,044,307                  | 294,993,515       |
| Nonfirm Power .....                          | 114,967                     | 2,152,122         | 54,790                      | 1,066,983         | 511,270                     | 8,691,429         |
| Total Power .....                            | 114,967                     | 2,152,122         | 11,361,494                  | 276,582,612       | 12,555,577                  | 303,684,944       |
| Norris Public Power District/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 479,215                     | 14,977,844        | 479,215                     | 14,977,844        |
| Total Power .....                            | —                           | —                 | 479,215                     | 14,977,844        | 479,215                     | 14,977,844        |
| Omaha Public Power District/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | 343,200           | 2,566                       | 78,404            | 409,974                     | 6,559,513         |
| Total Power .....                            | —                           | 343,200           | 2,566                       | 78,404            | 409,974                     | 6,559,513         |
| Southern Nebraska Rural P P D/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 485,203                     | 16,840,017        | —                           | —                 | 485,203                     | 16,840,017        |
| Total Power .....                            | 485,203                     | 16,840,017        | —                           | —                 | 485,203                     | 16,840,017        |
| <b>Nevada</b>                                |                             |                   |                             |                   |                             |                   |
| Colorado River Comm of Nevada/Jun 30         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,719,358                   | 22,575,730        |
| Nonfirm Power .....                          | —                           | —                 | 125,648                     | 1,991,668         | 125,648                     | 1,991,668         |
| Total Power .....                            | —                           | —                 | 125,648                     | 1,991,668         | 1,845,006                   | 24,567,398        |
| Overton Power District No 5/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 116,241                     | 1,742,912         | 236,344                     | 4,998,025         |
| Nonfirm Power .....                          | —                           | —                 | 18,360                      | 265,014           | 23,537                      | 347,561           |
| Total Power .....                            | —                           | —                 | 134,601                     | 2,007,926         | 259,881                     | 5,345,586         |

See notes and footnotes at end of table.

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | Municipal                   |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>New York</b>                              |                             |                   |                             |                   |                             |                   |
| Power Authority of State of NY/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | 53,000            | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 969,523                     | 17,108,000        | —                           | —                 | —                           | —                 |
| Total Power .....                            | 969,523                     | 17,161,000        | —                           | —                 | —                           | —                 |
| <b>North Carolina</b>                        |                             |                   |                             |                   |                             |                   |
| New River Light & Power Co/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| <b>Oklahoma</b>                              |                             |                   |                             |                   |                             |                   |
| Grand River Dam Authority/Dec 31             |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 114,923                     | 2,655,639         | —                           | —                 | 875                         | 42,438            |
| Other Power .....                            | 69,728                      | —                 | —                           | —                 | 29,337                      | —                 |
| Total Power .....                            | 184,651                     | 2,655,639         | —                           | —                 | 30,212                      | 42,438            |
| Oklahoma Municipal Power Auth/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 751,868                     | 17,156,001        | —                           | —                 | 1,662                       | 1,851,454         |
| Nonfirm Power .....                          | —                           | —                 | 27,363                      | 466,423           | 39,427                      | 605,925           |
| Total Power .....                            | 751,868                     | 17,156,001        | 27,363                      | 466,423           | 41,089                      | 2,457,379         |
| <b>Oregon</b>                                |                             |                   |                             |                   |                             |                   |
| Central Lincoln Peoples Util Dt/Dec 31       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 1,281,200                   | 36,372,492        | —                           | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | 1,281,200                   | 36,372,492        | —                           | —                 |
| Clatskanie Peoples Util Dist/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 853,532                     | 22,930,649        | —                           | —                 |
| Nonfirm Power .....                          | 26                          | 402,922           | —                           | —                 | —                           | —                 |
| Total Power .....                            | 26                          | 402,922           | 853,532                     | 22,930,649        | —                           | —                 |
| Columbia River Peoples Ut Dist/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 296,272                     | 7,441,705         | —                           | —                 |
| Total Power .....                            | —                           | —                 | 296,272                     | 7,441,705         | —                           | —                 |
| Emerald People 's Utility Dist/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 360,822                     | 9,424,012         | —                           | —                 |
| Nonfirm Power .....                          | 19,635                      | 265,072           | —                           | —                 | —                           | —                 |
| Total Power .....                            | 19,635                      | 265,072           | 360,822                     | 9,424,012         | —                           | —                 |
| Northern Wasco County P U D/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 266,227                     | 7,740,646         | —                           | —                 |
| Total Power .....                            | —                           | —                 | 266,227                     | 7,740,646         | —                           | —                 |
| Tillamook Peoples Utility Dist/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 337,811                     | 9,385,850         | —                           | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 60,514                      | 1,071,882         |
| Total Power .....                            | —                           | —                 | 337,811                     | 9,385,850         | 60,514                      | 1,071,882         |
| <b>South Carolina</b>                        |                             |                   |                             |                   |                             |                   |
| South Carolina Pub Serv Auth/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 53,542                      | 1,369,635         | 267,774                     | 4,761,899         | 121,547                     | 4,342,089         |
| Nonfirm Power .....                          | 104,681                     | 2,142,426         | —                           | —                 | 3,611                       | 45,204            |
| Other Power .....                            | 18,903                      | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | 177,126                     | 3,512,061         | 267,774                     | 4,761,899         | 125,158                     | 4,387,293         |
| <b>South Dakota</b>                          |                             |                   |                             |                   |                             |                   |
| Heartland Consumers Power Dist/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | 250,250           |
| Nonfirm Power .....                          | —                           | —                 | 25,499                      | 377,202           | —                           | —                 |
| Total Power .....                            | —                           | —                 | 25,499                      | 377,202           | —                           | 250,250           |
| Missouri Basin Mun Power Agny/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,997,174                   | 42,359,351        |
| Nonfirm Power .....                          | —                           | 904,547           | 17,483                      | 256,010           | —                           | —                 |
| Total Power .....                            | —                           | 904,547           | 17,483                      | 256,010           | 1,997,174                   | 42,359,351        |
| <b>Texas</b>                                 |                             |                   |                             |                   |                             |                   |
| Lower Colorado River Authority/June 30       |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 231,915                     | 4,861,671         | —                           | —                 | 125,900                     | 2,567,355         |
| Total Power .....                            | 231,915                     | 4,861,671         | —                           | —                 | 125,900                     | 2,567,355         |
| Sam Rayburn Mun Pwr Agny/Sep 30              |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| <b>Utah</b>                                  |                             |                   |                             |                   |                             |                   |
| Utah Associated Mun Power Sys/Mar 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 314,004                     | 7,742,309         | 420,695                     | 8,695,169         | —                           | —                 |
| Nonfirm Power .....                          | 91,457                      | 977,309           | 61,143                      | 783,225           | 1,735                       | 28,872            |
| Total Power .....                            | 405,461                     | 8,719,618         | 481,838                     | 9,478,394         | 1,735                       | 28,872            |

See notes and footnotes at end of table.

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>New York</b>                              |                             |                   |                             |                   |                             |                   |
| Power Authority of State of NY/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 3,403,395                   | 72,750,000        | 3,403,395                   | 72,803,000        |
| Nonfirm Power .....                          | —                           | —                 | 1,545,451                   | 28,383,000        | 2,514,974                   | 45,491,000        |
| Total Power .....                            | —                           | —                 | 4,948,846                   | 101,133,000       | 5,918,369                   | 118,294,000       |
| <b>North Carolina</b>                        |                             |                   |                             |                   |                             |                   |
| New River Light & Power Co/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 185,530                     | 9,011,888         | —                           | —                 | 185,530                     | 9,011,888         |
| Total Power .....                            | 185,530                     | 9,011,888         | —                           | —                 | 185,530                     | 9,011,888         |
| <b>Oklahoma</b>                              |                             |                   |                             |                   |                             |                   |
| Grand River Dam Authority/Dec 31             |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 337,749                     | 6,148,829         | 282,409                     | 5,522,728         | 735,956                     | 14,369,634        |
| Other Power .....                            | 13,293                      | —                 | 14,474                      | —                 | 126,832                     | —                 |
| Total Power .....                            | 351,042                     | 6,148,829         | 296,883                     | 5,522,728         | 862,788                     | 14,369,634        |
| Oklahoma Municipal Power Auth/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 61,510                      | 4,084,764         | 202,593                     | 6,551,340         | 1,017,633                   | 29,643,559        |
| Nonfirm Power .....                          | —                           | —                 | 10,607                      | 323,179           | 77,397                      | 1,395,527         |
| Total Power .....                            | 61,510                      | 4,084,764         | 213,200                     | 6,874,519         | 1,095,030                   | 31,039,086        |
| <b>Oregon</b>                                |                             |                   |                             |                   |                             |                   |
| Central Lincoln Peoples Utl Dt/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,281,200                   | 36,372,492        |
| Nonfirm Power .....                          | 69                          | 2,222             | 22,006                      | 64,450            | 22,075                      | 66,672            |
| Total Power .....                            | 69                          | 2,222             | 22,006                      | 64,450            | 1,303,275                   | 36,439,164        |
| Clatskanie Peoples Util Dist/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 853,532                     | 22,930,649        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 26                          | 402,922           |
| Total Power .....                            | —                           | —                 | —                           | —                 | 853,558                     | 23,333,571        |
| Columbia River Peoples Ut Dist/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 296,272                     | 7,441,705         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 296,272                     | 7,441,705         |
| Emerald People 's Utility Dist/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 360,822                     | 9,424,012         |
| Nonfirm Power .....                          | —                           | —                 | 26,360                      | 457,364           | 45,995                      | 722,436           |
| Total Power .....                            | —                           | —                 | 26,360                      | 457,364           | 406,817                     | 10,146,448        |
| Northern Wasco County P U D/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 266,227                     | 7,740,646         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 266,227                     | 7,740,646         |
| Tillamook Peoples Utility Dist/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 337,811                     | 9,385,850         |
| Nonfirm Power .....                          | —                           | —                 | 40,118                      | 379,130           | 100,632                     | 1,451,012         |
| Total Power .....                            | —                           | —                 | 40,118                      | 379,130           | 438,443                     | 10,836,862        |
| <b>South Carolina</b>                        |                             |                   |                             |                   |                             |                   |
| South Carolina Pub Serv Auth/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 101,577                     | 2,447,485         | 544,440                     | 12,921,108        |
| Nonfirm Power .....                          | 16,325                      | 421,234           | 101,430                     | 1,472,711         | 226,047                     | 4,081,575         |
| Other Power .....                            | —                           | —                 | 20,564                      | —                 | 39,467                      | —                 |
| Total Power .....                            | 16,325                      | 421,234           | 223,571                     | 3,920,196         | 809,954                     | 17,002,683        |
| <b>South Dakota</b>                          |                             |                   |                             |                   |                             |                   |
| Heartland Consumers Power Dist/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 54,499                      | 955,572           | 31,777                      | 481,402           | 86,276                      | 1,687,224         |
| Nonfirm Power .....                          | —                           | —                 | 3,184                       | 30,669            | 28,683                      | 407,871           |
| Total Power .....                            | 54,499                      | 955,572           | 34,961                      | 512,071           | 114,959                     | 2,095,095         |
| Missouri Basin Mun Power Agny/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,997,174                   | 42,359,351        |
| Nonfirm Power .....                          | —                           | —                 | 75,985                      | 1,762,923         | 93,468                      | 2,923,480         |
| Total Power .....                            | —                           | —                 | 75,985                      | 1,762,923         | 2,090,642                   | 45,282,831        |
| <b>Texas</b>                                 |                             |                   |                             |                   |                             |                   |
| Lower Colorado River Authority/Jun 30        |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 6,976                       | 104,169           | 200,923                     | 2,321,535         | 565,714                     | 9,854,730         |
| Total Power .....                            | 6,976                       | 104,169           | 200,923                     | 2,321,535         | 565,714                     | 9,854,730         |
| Sam Rayburn Mun Pwr Agny/Sep 30              |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 44,469                      | 5,187,914         | —                           | —                 | 44,469                      | 5,187,914         |
| Total Power .....                            | 44,469                      | 5,187,914         | —                           | —                 | 44,469                      | 5,187,914         |
| <b>Utah</b>                                  |                             |                   |                             |                   |                             |                   |
| Utah Associated Mun Power Sys/Mar 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 734,699                     | 16,437,478        |
| Nonfirm Power .....                          | 101,222                     | 1,388,881         | 40,941                      | 534,484           | 296,498                     | 3,712,771         |
| Total Power .....                            | 101,222                     | 1,388,881         | 40,941                      | 534,484           | 1,031,197                   | 20,150,249        |

See notes and footnotes at end of table.

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | Municipal                   |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Utah</b>                                  |                             |                   |                             |                   |                             |                   |
| Utah Municipal Power Agency/June 30          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 35,136                      | 1,789,776         | 358,174                     | 6,916,991         | —                           | —                 |
| Nonfirm Power .....                          | 58,084                      | 510,366           | 39,576                      | 526,840           | 15                          | 135               |
| Total Power .....                            | 93,220                      | 2,300,142         | 397,750                     | 7,443,831         | 15                          | 135               |
| <b>Vermont</b>                               |                             |                   |                             |                   |                             |                   |
| Vermont Public Pwr Supply Auth/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 59,654                      | 1,741,826         | —                           | —                 | 87                          | 24,671            |
| Nonfirm Power .....                          | 1,066                       | 26,528            | —                           | —                 | 5,664                       | 236,851           |
| Total Power .....                            | 60,720                      | 1,768,354         | —                           | —                 | 5,751                       | 261,522           |
| <b>Virginia</b>                              |                             |                   |                             |                   |                             |                   |
| Virginia Tech Electric Service/June 30       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| <b>Washington</b>                            |                             |                   |                             |                   |                             |                   |
| PUD No 1 of Benton County/Dec 31             |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 1,461,322                   | 45,307,526        | —                           | —                 |
| Nonfirm Power .....                          | 19,920                      | 252,321           | 525                         | 5,739             | —                           | —                 |
| Total Power .....                            | 19,920                      | 252,321           | 1,461,847                   | 45,313,265        | —                           | —                 |
| PUD No 1 of Chelan County/Dec 31             |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 123,620                     | 1,477,202         | 12,485                      | 434,932           | 1,074                       | 18,607            |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Other Power .....                            | —                           | —                 | 156,970                     | —                 | —                           | —                 |
| Total Power .....                            | 123,620                     | 1,477,202         | 169,455                     | 434,932           | 1,074                       | 18,607            |
| PUD No 1 of Clallam County/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 538,484                     | 14,993,620        | —                           | —                 |
| Nonfirm Power .....                          | 4,416                       | 94,229            | —                           | —                 | —                           | —                 |
| Total Power .....                            | 4,416                       | 94,229            | 538,484                     | 14,993,620        | —                           | —                 |
| PUD No 1 of Clark County/Dec 31              |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 2,209,035                   | 59,203,305        | 1,554,836                   | 48,070,912        | —                           | —                 |
| Total Power .....                            | 2,209,035                   | 59,203,305        | 1,554,836                   | 48,070,912        | —                           | —                 |
| PUD No 1 of Cowlitz County/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 3,023,494                   | 71,171,934        | —                           | —                 |
| Nonfirm Power .....                          | 78,917                      | 1,262,970         | —                           | —                 | —                           | —                 |
| Total Power .....                            | 78,917                      | 1,262,970         | 3,023,494                   | 71,171,934        | —                           | —                 |
| PUD No 1 of Douglas County/Dec 31            |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 24,025                      | 5,865             | 24,468                      | 117,521           | —                           | —                 |
| Other Power .....                            | 1,265                       | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | 25,290                      | 5,865             | 24,468                      | 117,521           | —                           | —                 |
| PUD No 1 of Franklin County/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 675,922                     | 18,835,891        | —                           | —                 |
| Other Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | 675,922                     | 18,835,891        | —                           | —                 |
| PUD No 1 of Grays Harbor Cnty/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 225,760                     | 9,097,376         | —                           | —                 |
| Nonfirm Power .....                          | 251,980                     | 1,941,102         | 105,690                     | 4,371,700         | —                           | —                 |
| Total Power .....                            | 251,980                     | 1,941,102         | 331,450                     | 13,469,076        | —                           | —                 |
| PUD No 1 of Klickitat County/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 304,000                     | 8,097,039         | —                           | —                 |
| Total Power .....                            | —                           | —                 | 304,000                     | 8,097,039         | —                           | —                 |
| PUD No 1 of Lewis County/Dec 31              |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 791,890                     | 19,262,604        | —                           | —                 |
| Total Power .....                            | —                           | —                 | 791,890                     | 19,262,604        | —                           | —                 |
| PUD No 1 of Okanogan County/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 12,078                      | 229,540           | 359,833                     | 9,108,199         | —                           | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | 12,078                      | 229,540           | 359,833                     | 9,108,199         | —                           | —                 |
| PUD No 1 of Pend Oreille Cnty/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 247,724                     | 6,596,804         | —                           | —                 |
| Nonfirm Power .....                          | 30,260                      | 468,394           | 34,946                      | 248,105           | 246,291                     | 894,339           |
| Total Power .....                            | 30,260                      | 468,394           | 282,670                     | 6,844,909         | 246,291                     | 894,339           |
| PUD No 1 of Snohomish County/Dec 31          |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 1,003,042                   | 14,420,455        | 3,176,586                   | 99,352,964        | 1,120,212                   | 26,918,108        |
| Total Power .....                            | 1,003,042                   | 14,420,455        | 3,176,586                   | 99,352,964        | 1,120,212                   | 26,918,108        |
| PUD No 1 of Whatcom County/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 177,465                     | 4,624,287         | —                           | —                 |
| Total Power .....                            | —                           | —                 | 177,465                     | 4,624,287         | —                           | —                 |

See notes and footnotes at end of table.

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Utah</b>                                  |                             |                   |                             |                   |                             |                   |
| Utah Municipal Power Agency/June 30          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 393,310                     | 8,706,767         |
| Nonfirm Power .....                          | 800                         | 10,858            | —                           | —                 | 98,475                      | 1,048,199         |
| Total Power .....                            | 800                         | 10,858            | —                           | —                 | 491,785                     | 9,754,966         |
| <b>Vermont</b>                               |                             |                   |                             |                   |                             |                   |
| Vermont Public Pwr Supply Auth/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 2,438                       | 1,868,261         | 62,179                      | 3,634,758         |
| Nonfirm Power .....                          | —                           | —                 | 9,377                       | 137,740           | 16,107                      | 401,119           |
| Total Power .....                            | —                           | —                 | 11,815                      | 2,006,001         | 78,286                      | 4,035,877         |
| <b>Virginia</b>                              |                             |                   |                             |                   |                             |                   |
| Virginia Tech Electric Service/June 30       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 229,514                     | 7,774,451         | 229,514                     | 7,774,451         |
| Total Power .....                            | —                           | —                 | 229,514                     | 7,774,451         | 229,514                     | 7,774,451         |
| <b>Washington</b>                            |                             |                   |                             |                   |                             |                   |
| PUD No 1 of Benton County/Dec 31             |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,461,322                   | 45,307,526        |
| Nonfirm Power .....                          | —                           | —                 | 78,640                      | 752,888           | 99,085                      | 1,010,948         |
| Total Power .....                            | —                           | —                 | 78,640                      | 752,888           | 1,560,407                   | 46,318,474        |
| PUD No 1 of Chelan County/Dec 31             |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 493,913                     | 5,931,819         | 631,092                     | 7,862,560         |
| Nonfirm Power .....                          | —                           | —                 | 21,828                      | 64,450            | 21,828                      | 64,450            |
| Other Power .....                            | —                           | —                 | 1,267,455                   | —                 | 1,424,425                   | —                 |
| Total Power .....                            | —                           | —                 | 1,783,196                   | 5,996,269         | 2,077,345                   | 7,927,010         |
| PUD No 1 of Clallam County/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 538,484                     | 14,993,620        |
| Nonfirm Power .....                          | —                           | —                 | 17,744                      | 254,950           | 22,160                      | 349,179           |
| Total Power .....                            | —                           | —                 | 17,744                      | 254,950           | 560,644                     | 15,342,799        |
| PUD No 1 of Clark County/Dec 31              |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 107,864                     | 2,278,020         | 3,871,735                   | 109,552,237       |
| Total Power .....                            | —                           | —                 | 107,864                     | 2,278,020         | 3,871,735                   | 109,552,237       |
| PUD No 1 of Cowlitz County/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 3,023,494                   | 71,171,934        |
| Nonfirm Power .....                          | —                           | —                 | 463,461                     | 5,390,560         | 542,378                     | 6,653,530         |
| Total Power .....                            | —                           | —                 | 463,461                     | 5,390,560         | 3,565,872                   | 77,825,464        |
| PUD No 1 of Douglas County/Dec 31            |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 219,773                     | 1,217,715         | 268,266                     | 1,341,101         |
| Other Power .....                            | —                           | —                 | 4,230                       | —                 | 5,495                       | —                 |
| Total Power .....                            | —                           | —                 | 224,003                     | 1,217,715         | 273,761                     | 1,341,101         |
| PUD No 1 of Franklin County/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 675,922                     | 18,835,891        |
| Other Power .....                            | —                           | —                 | 30,899                      | —                 | 30,899                      | —                 |
| Total Power .....                            | —                           | —                 | 30,899                      | —                 | 706,821                     | 18,835,891        |
| PUD No 1 of Grays Harbor Cnty/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 225,760                     | 9,097,376         |
| Nonfirm Power .....                          | —                           | —                 | 123,612                     | 1,436,326         | 481,282                     | 7,749,128         |
| Total Power .....                            | —                           | —                 | 123,612                     | 1,436,326         | 707,042                     | 16,846,504        |
| PUD No 1 of Klickitat County/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 304,000                     | 8,097,039         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 304,000                     | 8,097,039         |
| PUD No 1 of Lewis County/Dec 31              |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 3,412                       | 622,684           | 795,302                     | 19,885,288        |
| Total Power .....                            | —                           | —                 | 3,412                       | 622,684           | 795,302                     | 19,885,288        |
| PUD No 1 of Okanogan County/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 371,911                     | 9,337,739         |
| Nonfirm Power .....                          | —                           | —                 | 293,727                     | 2,525,690         | 293,727                     | 2,525,690         |
| Total Power .....                            | —                           | —                 | 293,727                     | 2,525,690         | 665,638                     | 11,863,429        |
| PUD No 1 of Pend Oreille Cnty/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 247,724                     | 6,596,804         |
| Nonfirm Power .....                          | —                           | —                 | 4,342                       | 12,922            | 315,839                     | 1,623,760         |
| Total Power .....                            | —                           | —                 | 4,342                       | 12,922            | 563,563                     | 8,220,564         |
| PUD No 1 of Snohomish County/Dec 31          |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 2,369,519                   | 42,403,385        | 7,669,359                   | 183,094,912       |
| Total Power .....                            | —                           | —                 | 2,369,519                   | 42,403,385        | 7,669,359                   | 183,094,912       |
| PUD No 1 of Whatcom County/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 177,465                     | 4,624,287         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 177,465                     | 4,624,287         |

See notes and footnotes at end of table.

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | Municipal                   |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Washington</b>                            |                             |                   |                             |                   |                             |                   |
| PUD No 2 of Grant County/Dec 31              |                             |                   |                             |                   |                             |                   |
| Firm Power.....                              | —                           | —                 | 212,075                     | 5,941,018         | —                           | —                 |
| Nonfirm Power.....                           | 12,040                      | 142,040           | 117,625                     | 2,152,894         | 759                         | 5,635             |
| Total Power.....                             | 12,040                      | 142,040           | 329,700                     | 8,093,912         | 759                         | 5,635             |
| PUD No 2 of Pacific County/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power.....                              | —                           | —                 | 268,798                     | 8,378,833         | —                           | —                 |
| Nonfirm Power.....                           | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power.....                             | —                           | —                 | 268,798                     | 8,378,833         | —                           | —                 |
| PUD No 3 of Mason County/Dec 31              |                             |                   |                             |                   |                             |                   |
| Firm Power.....                              | —                           | —                 | 603,375                     | 17,628,304        | —                           | —                 |
| Total Power.....                             | —                           | —                 | 603,375                     | 17,628,304        | —                           | —                 |
| Vera Irrigation District #15/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power.....                              | —                           | —                 | 194,304                     | 5,659,447         | —                           | —                 |
| Nonfirm Power.....                           | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power.....                             | —                           | —                 | 194,304                     | 5,659,447         | —                           | —                 |
| <b>Wyoming</b>                               |                             |                   |                             |                   |                             |                   |
| Wyoming Municipal Pwr Agcy/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power.....                              | —                           | —                 | 56,991                      | 1,638,628         | —                           | —                 |
| Total Power.....                             | —                           | —                 | 56,991                      | 1,638,628         | —                           | —                 |

See notes and footnotes at end of table.

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Washington</b>                            |                             |                   |                             |                   |                             |                   |
| PUD No 2 of Grant County/Dec 31              |                             |                   |                             |                   |                             |                   |
| Firm Power.....                              | —                           | —                 | —                           | —                 | 212,075                     | 5,941,018         |
| Nonfirm Power.....                           | 1,098                       | 43,636            | 189,915                     | 3,821,825         | 321,437                     | 6,166,030         |
| Total Power.....                             | 1,098                       | 43,636            | 189,915                     | 3,821,825         | 533,512                     | 12,107,048        |
| PUD No 2 of Pacific County/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power.....                              | —                           | —                 | —                           | —                 | 268,798                     | 8,378,833         |
| Nonfirm Power.....                           | —                           | —                 | 13,250                      | 201,181           | 13,250                      | 201,181           |
| Total Power.....                             | —                           | —                 | 13,250                      | 201,181           | 282,048                     | 8,580,014         |
| PUD No 3 of Mason County/Dec 31              |                             |                   |                             |                   |                             |                   |
| Firm Power.....                              | —                           | —                 | —                           | —                 | 603,375                     | 17,628,304        |
| Total Power.....                             | —                           | —                 | —                           | —                 | 603,375                     | 17,628,304        |
| Vera Irrigation District #15/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power.....                              | —                           | —                 | —                           | —                 | 194,304                     | 5,659,447         |
| Nonfirm Power.....                           | —                           | —                 | 4,022                       | 116,150           | 4,022                       | 116,150           |
| Total Power.....                             | —                           | —                 | 4,022                       | 116,150           | 198,326                     | 5,775,597         |
| <b>Wyoming</b>                               |                             |                   |                             |                   |                             |                   |
| Wyoming Municipal Pwr Agcy/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power.....                              | —                           | —                 | —                           | —                 | 56,991                      | 1,638,628         |
| Total Power.....                             | —                           | —                 | —                           | —                 | 56,991                      | 1,638,628         |

<sup>1</sup> Includes transactions with State and other government utilities, power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the public utilities are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities," except where footnoted.



**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Investor-Owned                        |                      | Federal                               |                      | Municipal                             |                      |
|  | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Alaska</b>                                |                                       |                      |                                       |                      |                                       |                      |
| Alaska Energy Authority/June 30              |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 216,237                               | 8,962,066            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 216,237                               | 8,962,066            |
| <b>Arizona</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Arizona Power Authority/June 30              |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 45,360                                | 577,402              | 26,856                                | 547,010              |
| Total Power .....                            | —                                     | —                    | 45,360                                | 577,402              | 26,856                                | 547,010              |
| Salt River Proj Ag I & P Dist/Apr 30         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 1,606,627                             | 55,855,817           | 37,317                                | 1,383,218            | 139,340                               | 4,811,531            |
| Nonfirm Power .....                          | 1,070,549                             | 14,882,899           | 905                                   | 18,738               | 201,693                               | 2,576,817            |
| Total Power .....                            | 2,677,176                             | 70,738,716           | 38,222                                | 1,401,956            | 341,033                               | 7,388,348            |
| <b>California</b>                            |                                       |                      |                                       |                      |                                       |                      |
| California Dept-Wtr Resources/June 30        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 135,345                               | 9,272,308            | —                                     | —                    | 486,389                               | 7,085,998            |
| Nonfirm Power .....                          | 1,265,068                             | 18,783,796           | 11,040                                | 206,864              | 459,332                               | 5,068,529            |
| Total Power .....                            | 1,400,413                             | 28,056,104           | 11,040                                | 206,864              | 945,721                               | 12,154,527           |
| Imperial Irrigation District/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 12,380                                | 526,672              | —                                     | —                    | —                                     | —                    |
| Nonfirm Power .....                          | 19,090                                | 462,863              | —                                     | —                    | 7,340                                 | 169,576              |
| Total Power .....                            | 31,470                                | 989,535              | —                                     | —                    | 7,340                                 | 169,576              |
| Kings River Conservation Dist/June 30        |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Merced Irrigation District/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 489,862                               | 4,143,050            | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | 489,862                               | 4,143,050            | —                                     | —                    | —                                     | —                    |
| Modesto Irrigation District/Dec 31           |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 16,098                                | 326,661              | —                                     | —                    | —                                     | —                    |
| Nonfirm Power .....                          | 54,916                                | 1,008,123            | 60                                    | 2,295                | 21,628                                | 270,909              |
| Total Power .....                            | 71,014                                | 1,334,784            | 60                                    | 2,295                | 21,628                                | 270,909              |
| MSR Public Power Agency/Dec 31               |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 790,913                               | 48,247,571           |
| Nonfirm Power .....                          | 144,612                               | 1,881,458            | 2,373                                 | 50,220               | 1,266                                 | 9,542                |
| Total Power .....                            | 144,612                               | 1,881,458            | 2,373                                 | 50,220               | 792,179                               | 48,257,113           |
| Northern California Power Agny/June 30       |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 46,209                                | 455,215              | 1,558                                 | 19,766               | 2,951,433                             | 174,119,224          |
| Total Power .....                            | 46,209                                | 455,215              | 1,558                                 | 19,766               | 2,951,433                             | 174,119,224          |
| Oakdale & South San Joaquin/Dec 31           |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 601,533                               | 6,375,945            | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | 601,533                               | 6,375,945            | —                                     | —                    | —                                     | —                    |
| Oroville-Wyandotte Irrig Dist/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 597,980                               | 9,383,191            | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | 597,980                               | 9,383,191            | —                                     | —                    | —                                     | —                    |
| Placer County Water Agency/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 1,449,203                             | 8,168,637            | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | 1,449,203                             | 8,168,637            | —                                     | —                    | —                                     | —                    |
| Sacramento Municipal Util Dist/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 88,393                                | 1,058,161            | 1,405                                 | 17,537               | 32,245                                | 410,011              |
| Total Power .....                            | 88,393                                | 1,058,161            | 1,405                                 | 17,537               | 32,245                                | 410,011              |
| Southern California P P A/June 30            |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 1,730,853                             | 151,266,000          |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 1,730,853                             | 151,266,000          |
| Yuba County Water Agency/June 30             |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 2,077,215                             | 12,760,520           | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | 2,077,215                             | 12,760,520           | —                                     | —                    | —                                     | —                    |
| <b>Colorado</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Arkansas River Power Authority/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 104,911                               | 3,690,923            |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 181,298                               | 6,083,866            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 286,209                               | 9,774,789            |
| Platte River Power Authority/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 875,681                               | 49,938,528           | —                                     | —                    | 2,132,722                             | 73,998,801           |
| Nonfirm Power .....                          | 429,401                               | 6,248,265            | 1,445                                 | 21,010               | 30                                    | 495                  |
| Total Power .....                            | 1,305,082                             | 56,186,793           | 1,445                                 | 21,010               | 2,132,752                             | 73,999,296           |

See notes and footnotes at end of table.

**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Cooperative                           |                      | Other <sup>1</sup>                    |                      | Total                                 |                      |
|  | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Alaska</b>                                |                                       |                      |                                       |                      |                                       |                      |
| Alaska Energy Authority/June 30              |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 443,575                               | 17,124,842           | —                                     | —                    | 659,812                               | 26,086,908           |
| Total Power .....                            | 443,575                               | 17,124,842           | —                                     | —                    | 659,812                               | 26,086,908           |
| <b>Arizona</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Arizona Power Authority/June 30              |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 1,109,296                             | 21,472,440           | 1,181,512                             | 22,596,852           |
| Total Power .....                            | —                                     | —                    | 1,109,296                             | 21,472,440           | 1,181,512                             | 22,596,852           |
| Salt River Proj Ag I & P Dist/Apr 30         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 367,216                               | 7,946,898            | 2,150,500                             | 69,997,464           |
| Nonfirm Power .....                          | 23,579                                | 365,000              | 755,295                               | 10,186,970           | 2,052,021                             | 28,030,424           |
| Total Power .....                            | 23,579                                | 365,000              | 1,122,511                             | 18,133,868           | 4,202,521                             | 98,027,888           |
| <b>California</b>                            |                                       |                      |                                       |                      |                                       |                      |
| California Dept-Wtr Resources/June 30        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 1,249,609                             | 20,182,964           | 1,871,343                             | 36,541,270           |
| Nonfirm Power .....                          | —                                     | —                    | 706,475                               | 7,123,312            | 2,441,915                             | 31,182,501           |
| Total Power .....                            | —                                     | —                    | 1,956,084                             | 27,306,276           | 4,313,258                             | 67,723,771           |
| Imperial Irrigation District/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 12,380                                | 526,672              |
| Nonfirm Power .....                          | —                                     | —                    | 34,249                                | 671,354              | 60,679                                | 1,303,793            |
| Total Power .....                            | —                                     | —                    | 34,249                                | 671,354              | 73,059                                | 1,830,465            |
| Kings River Conservation Dist/June 30        |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 784,873                               | 15,020,987           | 784,873                               | 15,020,987           |
| Total Power .....                            | —                                     | —                    | 784,873                               | 15,020,987           | 784,873                               | 15,020,987           |
| Merced Irrigation District/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 489,862                               | 4,143,050            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 489,862                               | 4,143,050            |
| Modesto Irrigation District/Dec 31           |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 16,098                                | 326,661              |
| Nonfirm Power .....                          | —                                     | —                    | 385,395                               | 5,252,856            | 461,999                               | 6,534,183            |
| Total Power .....                            | —                                     | —                    | 385,395                               | 5,252,856            | 478,097                               | 6,860,844            |
| MSR Public Power Agency/Dec 31               |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 806,046                               | 48,692,375           | 1,596,959                             | 96,939,946           |
| Nonfirm Power .....                          | 720                                   | 7,840                | 329,084                               | 3,883,470            | 478,055                               | 5,832,530            |
| Total Power .....                            | 720                                   | 7,840                | 1,135,130                             | 52,575,845           | 2,075,014                             | 102,772,476          |
| Northern California Power Agency/June 30     |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 41,998                                | 1,849,000            | 72,283                                | 1,128,856            | 3,113,481                             | 177,572,061          |
| Total Power .....                            | 41,998                                | 1,849,000            | 72,283                                | 1,128,856            | 3,113,481                             | 177,572,061          |
| Oakdale & South San Joaquin/Dec 31           |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 601,533                               | 6,375,945            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 601,533                               | 6,375,945            |
| Oroville-Wyandotte Irrig Dist/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 597,980                               | 9,383,191            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 597,980                               | 9,383,191            |
| Placer County Water Agency/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 1,449,203                             | 8,168,637            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 1,449,203                             | 8,168,637            |
| Sacramento Municipal Util Dist/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 5,403                                 | 39,609               | 127,446                               | 1,525,318            |
| Total Power .....                            | —                                     | —                    | 5,403                                 | 39,609               | 127,446                               | 1,525,318            |
| Southern California P P A/June 30            |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 307,949                               | 34,316,000           | 2,038,802                             | 185,582,000          |
| Total Power .....                            | —                                     | —                    | 307,949                               | 34,316,000           | 2,038,802                             | 185,582,000          |
| Yuba County Water Agency/June 30             |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 2,077,215                             | 12,760,520           |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 2,077,215                             | 12,760,520           |
| <b>Colorado</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Arkansas River Power Authority/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 104,911                               | 3,690,923            |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 181,298                               | 6,083,866            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 286,209                               | 9,774,789            |
| Platte River Power Authority/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 3,008,403                             | 123,937,329          |
| Nonfirm Power .....                          | 199,101                               | 2,127,150            | 276,154                               | 3,632,663            | 906,131                               | 12,029,583           |
| Total Power .....                            | 199,101                               | 2,127,150            | 276,154                               | 3,632,663            | 3,914,534                             | 135,966,912          |

See notes and footnotes at end of table.

**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Investor-Owned                        |                      | Federal                               |                      | Municipal                             |                      |
|  | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Georgia</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Municipal Electric Authority/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 1,515,095                             | 89,459,000           | —                                     | 7,635,000            | —                                     | —                    |
| Nonfirm Power .....                          | 170,909                               | 3,818,000            | —                                     | —                    | 249,407                               | 5,217,000            |
| Total Power .....                            | 1,686,004                             | 93,277,000           | —                                     | 7,635,000            | 249,407                               | 5,217,000            |
| <b>Indiana</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Indiana Municipal Power Agency/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 4,504,310                             | 167,809,545          |
| Nonfirm Power .....                          | 220,496                               | 3,581,709            | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | 220,496                               | 3,581,709            | —                                     | —                    | 4,504,310                             | 167,809,545          |
| <b>Kansas</b>                                |                                       |                      |                                       |                      |                                       |                      |
| Kansas Municipal Energy Agency/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 31,946                                | 523,786              | —                                     | —                    | 165,723                               | 6,382,675            |
| Total Power .....                            | 31,946                                | 523,786              | —                                     | —                    | 165,723                               | 6,382,675            |
| <b>Louisiana</b>                             |                                       |                      |                                       |                      |                                       |                      |
| Lafayette Public Power Auth/Oct 31           |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 1,359,281                             | 42,578,369           |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 1,359,281                             | 42,578,369           |
| Louisiana Energy & Power Auth/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 1,235,982                             | 50,774,953           |
| Nonfirm Power .....                          | 25                                    | 845                  | —                                     | —                    | 82,679                                | 1,986,233            |
| Total Power .....                            | 25                                    | 845                  | —                                     | —                    | 1,318,661                             | 52,761,186           |
| <b>Massachusetts</b>                         |                                       |                      |                                       |                      |                                       |                      |
| Mun Wholes Elec Co/Dec 31                    |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 34,643                                | 2,359,874            | —                                     | —                    | 2,549,950                             | 231,570,209          |
| Total Power .....                            | 34,643                                | 2,359,874            | —                                     | —                    | 2,549,950                             | 231,570,209          |
| <b>Michigan</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Michigan Public Power Agency/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 64,848                                | 1,347,523            | —                                     | —                    | 2,558,123                             | 89,301,743           |
| Nonfirm Power .....                          | 21,879                                | 393,211              | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | 86,727                                | 1,740,734            | —                                     | —                    | 2,558,123                             | 89,301,743           |
| Michigan South Central Pwr Agy/Jun 30        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 483,476                               | 25,985,888           |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 483,476                               | 25,985,888           |
| <b>Minnesota</b>                             |                                       |                      |                                       |                      |                                       |                      |
| Minnesota Municipal Power Agny               |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 756,407                               | 27,043,711           |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 756,407                               | 27,043,711           |
| Northern Municipal Power Agny/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 446,082                               | 13,132,916           |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 446,082                               | 13,132,916           |
| Southern Minnesota Mun P Agny/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 9,315                                 | 159,028              | —                                     | —                    | 2,220,239                             | 112,208,918          |
| Nonfirm Power .....                          | 75,720                                | 1,079,400            | 3,656                                 | 46,608               | 2,279                                 | 28,580               |
| Total Power .....                            | 85,035                                | 1,238,428            | 3,656                                 | 46,608               | 2,222,518                             | 112,237,498          |
| <b>Nebraska</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Central Nebraska Pub P&I Dist/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Cornhusker Public Power Dist/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 3,598                                 | 48,321               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 3,598                                 | 48,321               |
| Dawson County Public Pwr Dist/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 6,163                                 | 244,959              |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 6,163                                 | 244,959              |
| Loup River Public Power Dist/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 93,709                                | 3,224,362            |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 93,709                                | 3,224,362            |
| Municipal Energy Agency of NE/Mar 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 101,361                               | 2,347,413            | 845,630                               | 26,653,262           |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 121,213                               | 2,135,599            |
| Total Power .....                            | —                                     | —                    | 101,361                               | 2,347,413            | 966,843                               | 28,788,861           |

See notes and footnotes at end of table.

**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Cooperative                           |                      | Other <sup>1</sup>                    |                      | Total                                 |                      |
|  | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Georgia</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Municipal Electric Authority/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 8,162,088                             | 384,020,000          | 9,677,183                             | 481,114,000          |
| Nonfirm Power .....                          | 12,887                                | 251,000              | 154,526                               | 6,939,000            | 587,729                               | 16,225,000           |
| Total Power .....                            | 12,887                                | 251,000              | 8,316,614                             | 390,959,000          | 10,264,912                            | 497,339,000          |
| <b>Indiana</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Indiana Municipal Power Agency/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 4,504,310                             | 167,809,545          |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 220,496                               | 3,581,709            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 4,724,806                             | 171,391,254          |
| <b>Kansas</b>                                |                                       |                      |                                       |                      |                                       |                      |
| Kansas Municipal Energy Agency/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 95,837                                | 3,174,570            | 293,506                               | 10,081,031           |
| Total Power .....                            | —                                     | —                    | 95,837                                | 3,174,570            | 293,506                               | 10,081,031           |
| <b>Louisiana</b>                             |                                       |                      |                                       |                      |                                       |                      |
| Lafayette Public Power Auth/Oct 31           |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 1,359,281                             | 42,578,369           |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 1,359,281                             | 42,578,369           |
| Louisiana Energy & Power Auth/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 30,802                                | 1,354,753            | 1,266,784                             | 52,129,706           |
| Nonfirm Power .....                          | —                                     | —                    | 317                                   | 9,569                | 83,021                                | 1,996,647            |
| Total Power .....                            | —                                     | —                    | 31,119                                | 1,364,322            | 1,349,805                             | 54,126,353           |
| <b>Massachusetts</b>                         |                                       |                      |                                       |                      |                                       |                      |
| Mun Wholes Elec Co/Dec 31                    |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | 40,000               | 2,584,593                             | 233,970,083          |
| Total Power .....                            | —                                     | —                    | —                                     | 40,000               | 2,584,593                             | 233,970,083          |
| <b>Michigan</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Michigan Public Power Agency/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 541,602                               | 13,646,894           | —                                     | —                    | 3,164,573                             | 104,296,160          |
| Nonfirm Power .....                          | —                                     | —                    | 17,419                                | 177,366              | 39,298                                | 570,577              |
| Total Power .....                            | 541,602                               | 13,646,894           | 17,419                                | 177,366              | 3,203,871                             | 104,866,737          |
| Michigan South Central Pwr Agy/Jun 30        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 483,476                               | 25,985,888           |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 483,476                               | 25,985,888           |
| <b>Minnesota</b>                             |                                       |                      |                                       |                      |                                       |                      |
| Minnesota Municipal Power Agny               |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 756,407                               | 27,043,711           |
| Nonfirm Power .....                          | 14,195                                | 344,957              | —                                     | —                    | 14,195                                | 344,957              |
| Total Power .....                            | 14,195                                | 344,957              | —                                     | —                    | 770,602                               | 27,388,668           |
| Northern Municipal Power Agny/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 446,082                               | 13,132,916           |
| Nonfirm Power .....                          | 363,600                               | 25,652,295           | —                                     | —                    | 363,600                               | 25,652,295           |
| Total Power .....                            | 363,600                               | 25,652,295           | —                                     | —                    | 809,682                               | 38,785,211           |
| Southern Minnesota Mun P Agny/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 240                                   | 32,879               | 2,229,794                             | 112,400,825          |
| Nonfirm Power .....                          | 123,008                               | 1,734,511            | 73,761                                | 1,102,967            | 278,424                               | 3,992,066            |
| Total Power .....                            | 123,008                               | 1,734,511            | 74,001                                | 1,135,846            | 2,508,218                             | 116,392,891          |
| <b>Nebraska</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Central Nebraska Pub P&I Dist/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 440,025                               | 11,604,205           | 440,025                               | 11,604,205           |
| Total Power .....                            | —                                     | —                    | 440,025                               | 11,604,205           | 440,025                               | 11,604,205           |
| Cornhusker Public Power Dist/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 3,598                                 | 48,321               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 3,598                                 | 48,321               |
| Dawson County Public Pwr Dist/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 6,163                                 | 244,959              |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 6,163                                 | 244,959              |
| Loup River Public Power Dist/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 232,669                               | 7,695,358            | —                                     | —                    | 326,378                               | 10,919,720           |
| Nonfirm Power .....                          | —                                     | —                    | 136,906                               | 4,371,960            | 136,906                               | 4,371,960            |
| Total Power .....                            | 232,669                               | 7,695,358            | 136,906                               | 4,371,960            | 463,284                               | 15,291,680           |
| Municipal Energy Agency of NE/Mar 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 946,991                               | 29,000,675           |
| Nonfirm Power .....                          | —                                     | —                    | 5,830                                 | 120,883              | 127,043                               | 2,256,482            |
| Total Power .....                            | —                                     | —                    | 5,830                                 | 120,883              | 1,074,034                             | 31,257,157           |

See notes and footnotes at end of table.

**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Investor-Owned                        |                      | Federal                               |                      | Municipal                             |                      |
|  | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Nebraska</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Nebraska Public Power District/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 3,169,695                             | 92,409,900           | —                                     | —                    | 1,484,686                             | 53,803,222           |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 113,449                               | 1,762,550            |
| Total Power .....                            | 3,169,695                             | 92,409,900           | —                                     | —                    | 1,598,135                             | 55,565,772           |
| Norris Public Power District/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 14,103                                | 536,011              |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 1,840                                 | 37,747               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 15,943                                | 573,758              |
| Omaha Public Power District/Dec 31           |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 5,757                                 | 1,792,927            | —                                     | —                    | 43,290                                | 2,281,135            |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | 5,757                                 | 1,792,927            | —                                     | —                    | 43,290                                | 2,281,135            |
| <b>Nevada</b>                                |                                       |                      |                                       |                      |                                       |                      |
| Colorado River Comm of Nevada/Jun 30         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 548,940                               | 7,927,385            | —                                     | —                    | 38,111                                | 697,368              |
| Total Power .....                            | 548,940                               | 7,927,385            | —                                     | —                    | 38,111                                | 697,368              |
| Overton Power District No 5/Dec 31           |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| <b>New York</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Power Authority of State of NY/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 16,008,575                            | 359,836,000          | —                                     | —                    | 5,225,760                             | 91,134,000           |
| Nonfirm Power .....                          | 2,852,883                             | 53,561,000           | —                                     | —                    | 325,325                               | 2,450,000            |
| Total Power .....                            | 18,861,458                            | 413,397,000          | —                                     | —                    | 5,551,085                             | 93,584,000           |
| <b>Oklahoma</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Grand River Dam Authority/Dec 31             |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 2,370,646                             | 74,206,951           |
| Nonfirm Power .....                          | 51,125                                | 988,475              | —                                     | —                    | 87,340                                | 1,893,181            |
| Total Power .....                            | 51,125                                | 988,475              | —                                     | —                    | 2,457,986                             | 76,100,132           |
| Oklahoma Municipal Power Auth/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 1,763,199                             | 76,360,095           |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 1,763,199                             | 76,360,095           |
| <b>Oregon</b>                                |                                       |                      |                                       |                      |                                       |                      |
| Northern Wasco County P U D/Dec 31           |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| <b>South Carolina</b>                        |                                       |                      |                                       |                      |                                       |                      |
| South Carolina Pub Serv Auth/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 4,376                                 | 791,531              | 375,697                               | 21,720,238           |
| Nonfirm Power .....                          | 127,025                               | 2,948,556            | —                                     | —                    | 4,521                                 | 112,420              |
| Other Power .....                            | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | 127,025                               | 2,948,556            | 4,376                                 | 791,531              | 380,218                               | 21,832,658           |
| <b>South Dakota</b>                          |                                       |                      |                                       |                      |                                       |                      |
| Heartland Consumers Power Dist/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 331,482                               | 10,763,428           |
| Nonfirm Power .....                          | 8,483                                 | 125,686              | 135,388                               | 1,547,504            | —                                     | —                    |
| Total Power .....                            | 8,483                                 | 125,686              | 135,388                               | 1,547,504            | 331,482                               | 10,763,428           |
| Missouri Basin Mun Power Agny/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 1,232,620                             | 50,278,287           |
| Nonfirm Power .....                          | 352,567                               | 4,581,058            | 422                                   | 6,330                | 23,176                                | 305,194              |
| Total Power .....                            | 352,567                               | 4,581,058            | 422                                   | 6,330                | 1,255,796                             | 50,583,481           |
| <b>Texas</b>                                 |                                       |                      |                                       |                      |                                       |                      |
| Lower Colorado River Authority/Jun 30        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 3,419,527                             | 142,329,238          |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 3,419,527                             | 142,329,238          |
| Sam Rayburn Mun Pwr Agny/Sep 30              |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 348,792                               | 26,528,499           |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 348,792                               | 26,528,499           |
| Toledo Bend Project Joint Oper/Aug 31        |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 15,858                                | 320,552              | —                                     | —                    | —                                     | —                    |
| Total Power .....                            | 15,858                                | 320,552              | —                                     | —                    | —                                     | —                    |
| <b>Utah</b>                                  |                                       |                      |                                       |                      |                                       |                      |
| Utah Associated Mun Power Sys/Mar 31         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 44,668                                | 1,251,006            | —                                     | —                    | 1,499,087                             | 51,037,357           |

See notes and footnotes at end of table.

**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Cooperative                           |                      | Other <sup>1</sup>                    |                      | Total                                 |                      |
|  | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Nebraska</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Nebraska Public Power District/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 4,654,381                             | 146,213,122          |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 113,449                               | 1,762,550            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 4,767,830                             | 147,975,672          |
| Norris Public Power District/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 14,103                                | 536,011              |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 1,840                                 | 37,747               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 15,943                                | 573,758              |
| Omaha Public Power District/Dec 31           |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 16,214                                | 798,437              | 65,261                                | 4,872,499            |
| Nonfirm Power .....                          | —                                     | —                    | 108,334                               | 1,603,108            | 108,334                               | 1,603,108            |
| Total Power .....                            | —                                     | —                    | 124,548                               | 2,401,545            | 173,595                               | 6,475,607            |
| <b>Nevada</b>                                |                                       |                      |                                       |                      |                                       |                      |
| Colorado River Comm of Nevada/Jun 30         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 138,890                               | 2,200,457            | 198,481                               | 2,502,215            | 924,422                               | 13,327,425           |
| Total Power .....                            | 138,890                               | 2,200,457            | 198,481                               | 2,502,215            | 924,422                               | 13,327,425           |
| Overton Power District No 5/Dec 31           |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 12,764                                | 454,790              | —                                     | —                    | 12,764                                | 454,790              |
| Total Power .....                            | 12,764                                | 454,790              | —                                     | —                    | 12,764                                | 454,790              |
| <b>New York</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Power Authority of State of NY/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 563,581                               | 8,162,000            | 786,287                               | 14,861,000           | 22,584,203                            | 473,993,000          |
| Nonfirm Power .....                          | 73,409                                | 365,000              | 1,719,359                             | 42,968,000           | 4,970,976                             | 99,344,000           |
| Total Power .....                            | 636,990                               | 8,527,000            | 2,505,646                             | 57,829,000           | 27,555,179                            | 573,337,000          |
| <b>Oklahoma</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Grand River Dam Authority/Dec 31             |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 1,736,648                             | 65,289,782           | 8,365                                 | 212,665              | 4,115,659                             | 139,709,398          |
| Nonfirm Power .....                          | 91,570                                | 2,257,195            | 265,115                               | 6,879,291            | 495,150                               | 12,018,142           |
| Total Power .....                            | 1,828,218                             | 67,546,977           | 273,480                               | 7,091,956            | 4,610,809                             | 151,727,540          |
| Oklahoma Municipal Power Auth/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 1,763,199                             | 76,360,095           |
| Nonfirm Power .....                          | —                                     | —                    | 79,419                                | 1,587,930            | 79,419                                | 1,587,930            |
| Total Power .....                            | —                                     | —                    | 79,419                                | 1,587,930            | 1,842,618                             | 77,948,025           |
| <b>Oregon</b>                                |                                       |                      |                                       |                      |                                       |                      |
| Northern Wasco County P U D/Dec 31           |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 41,431                                | 1,924,744            | 41,431                                | 1,924,744            |
| Total Power .....                            | —                                     | —                    | 41,431                                | 1,924,744            | 41,431                                | 1,924,744            |
| <b>South Carolina</b>                        |                                       |                      |                                       |                      |                                       |                      |
| South Carolina Pub Serv Auth/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 8,122,932                             | 314,404,298          | 213,150                               | 5,400,402            | 8,716,155                             | 342,316,469          |
| Nonfirm Power .....                          | 167,778                               | 3,275,274            | 318,049                               | 7,199,490            | 617,373                               | 13,535,740           |
| Other Power .....                            | —                                     | —                    | 2,370                                 | —                    | 2,370                                 | —                    |
| Total Power .....                            | 8,290,710                             | 317,679,572          | 533,569                               | 12,599,892           | 9,335,898                             | 355,852,209          |
| <b>South Dakota</b>                          |                                       |                      |                                       |                      |                                       |                      |
| Heartland Consumers Power Dist/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 331,482                               | 10,763,428           |
| Nonfirm Power .....                          | 210                                   | 2,475                | 9,382                                 | 123,278              | 153,463                               | 1,798,943            |
| Total Power .....                            | 210                                   | 2,475                | 9,382                                 | 123,278              | 484,945                               | 12,562,371           |
| Missouri Basin Mun Power Agny/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 1,232,620                             | 50,278,287           |
| Nonfirm Power .....                          | 269,989                               | 3,747,469            | 108,716                               | 2,878,378            | 754,870                               | 11,518,429           |
| Total Power .....                            | 269,989                               | 3,747,469            | 108,716                               | 2,878,378            | 1,987,490                             | 61,796,716           |
| <b>Texas</b>                                 |                                       |                      |                                       |                      |                                       |                      |
| Lower Colorado River Authority/Jun 30        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 3,419,527                             | 142,329,238          |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 3,419,527                             | 142,329,238          |
| Sam Rayburn Mun Pwr Agny/Sep 30              |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 348,792                               | 26,528,499           |
| Nonfirm Power .....                          | —                                     | —                    | 204,238                               | 4,821,673            | 204,238                               | 4,821,673            |
| Total Power .....                            | —                                     | —                    | 204,238                               | 4,821,673            | 553,030                               | 31,350,172           |
| Toledo Bend Project Joint Oper/Aug 31        |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 15,859                                | 320,553              | 31,717                                | 641,105              |
| Total Power .....                            | —                                     | —                    | 15,859                                | 320,553              | 31,717                                | 641,105              |
| <b>Utah</b>                                  |                                       |                      |                                       |                      |                                       |                      |
| Utah Associated Mun Power Sys/Mar 31         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 20,591                                | 613,211              | 1,564,346                             | 52,901,574           |

See notes and footnotes at end of table.

**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Investor-Owned                        |                      | Federal                               |                      | Municipal                             |                      |
|  | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Utah</b>                                  |                                       |                      |                                       |                      |                                       |                      |
| Utah Associated Mun Power Sys/Mar 31         |                                       |                      |                                       |                      |                                       |                      |
| Other Power.....                             | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power.....                             | 44,668                                | 1,251,006            | —                                     | —                    | 1,499,087                             | 51,037,357           |
| Utah Municipal Power Agency/Jun 30           |                                       |                      |                                       |                      |                                       |                      |
| Firm Power.....                              | —                                     | —                    | —                                     | —                    | 791,109                               | 31,881,020           |
| Nonfirm Power.....                           | 11,757                                | 157,956              | 333                                   | 4,662                | 31,412                                | 375,648              |
| Total Power.....                             | 11,757                                | 157,956              | 333                                   | 4,662                | 822,521                               | 32,256,668           |
| <b>Vermont</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Vermont Public Pwr Supply Auth/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power.....                              | —                                     | —                    | —                                     | —                    | 100,649                               | 6,646,322            |
| Nonfirm Power.....                           | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power.....                             | —                                     | —                    | —                                     | —                    | 100,649                               | 6,646,322            |
| <b>Washington</b>                            |                                       |                      |                                       |                      |                                       |                      |
| PUD No 1 of Benton County/Dec 31             |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | 12,160                                | 208,140              | —                                     | —                    | —                                     | —                    |
| Total Power.....                             | 12,160                                | 208,140              | —                                     | —                    | —                                     | —                    |
| PUD No 1 of Chelan County/Dec 31             |                                       |                      |                                       |                      |                                       |                      |
| Firm Power.....                              | 407,332                               | 3,409,651            | 30                                    | 720                  | —                                     | —                    |
| Nonfirm Power.....                           | 8,040,937                             | 80,275,331           | —                                     | —                    | 60,750                                | 802,140              |
| Total Power.....                             | 8,448,269                             | 83,684,982           | 30                                    | 720                  | 60,750                                | 802,140              |
| PUD No 1 of Cowlitz County/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | 9,327                                 | 590,174              | —                                     | —                    | —                                     | —                    |
| Total Power.....                             | 9,327                                 | 590,174              | —                                     | —                    | —                                     | —                    |
| PUD No 1 of Douglas County/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | 4,081,590                             | 26,372,592           | —                                     | —                    | 22,929                                | 327,128              |
| Total Power.....                             | 4,081,590                             | 26,372,592           | —                                     | —                    | 22,929                                | 327,128              |
| PUD No 1 of Grays Harbor Cnty/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | 11,964                                | 148,073              | —                                     | —                    | —                                     | —                    |
| Total Power.....                             | 11,964                                | 148,073              | —                                     | —                    | —                                     | —                    |
| PUD No 1 of Pend Oreille Cnty/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | 3,285                                 | 47,819               | —                                     | —                    | 107,499                               | 826,139              |
| Total Power.....                             | 3,285                                 | 47,819               | —                                     | —                    | 107,499                               | 826,139              |
| PUD No 1 of Snohomish County/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | 612,992                               | 9,344,705            | —                                     | —                    | 56,648                                | 889,600              |
| Total Power.....                             | 612,992                               | 9,344,705            | —                                     | —                    | 56,648                                | 889,600              |
| PUD No 2 of Grant County/Dec 31              |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | 5,641,799                             | 31,396,687           | 2,525                                 | 28,205               | 1,305,236                             | 6,080,946            |
| Total Power.....                             | 5,641,799                             | 31,396,687           | 2,525                                 | 28,205               | 1,305,236                             | 6,080,946            |
| PUD No 3 of Mason County/Dec 31              |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power.....                             | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Washington Pub Pwr Supply Sys/Jun 30         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power.....                              | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Nonfirm Power.....                           | —                                     | —                    | 5,944,404                             | 381,636,001          | —                                     | —                    |
| Other Power.....                             | —                                     | —                    | 1,831,103                             | —                    | —                                     | —                    |
| Total Power.....                             | —                                     | —                    | 7,775,507                             | 381,636,001          | —                                     | —                    |
| <b>Wyoming</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Wyoming Municipal Pwr Agcy/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Firm Power.....                              | —                                     | —                    | —                                     | —                    | 195,269                               | 5,816,518            |
| Nonfirm Power.....                           | —                                     | —                    | —                                     | —                    | —                                     | —                    |
| Total Power.....                             | —                                     | —                    | —                                     | —                    | 195,269                               | 5,816,518            |

See notes and footnotes at end of table.

**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996**  
(Continued)

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Cooperative                           |                      | Other <sup>1</sup>                    |                      | Total                                 |                      |
|  | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales for<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Utah</b>                                  |                                       |                      |                                       |                      |                                       |                      |
| Utah Associated Mun Power Sys/Mar 31         |                                       |                      |                                       |                      |                                       |                      |
| Other Power.....                             | —                                     | —                    | 74,879                                | —                    | 74,879                                | —                    |
| Total Power.....                             | —                                     | —                    | 95,470                                | 613,211              | 1,639,225                             | 52,901,574           |
| Utah Municipal Power Agency/Jun 30           |                                       |                      |                                       |                      |                                       |                      |
| Firm Power.....                              | —                                     | —                    | —                                     | —                    | 791,109                               | 31,881,020           |
| Nonfirm Power.....                           | 34                                    | 459                  | 732                                   | 16,099               | 44,268                                | 554,824              |
| Total Power.....                             | 34                                    | 459                  | 732                                   | 16,099               | 835,377                               | 32,435,844           |
| <b>Vermont</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Vermont Public Pwr Supply Auth/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power.....                              | 2,548                                 | 447,100              | —                                     | 1,784,988            | 103,197                               | 8,878,410            |
| Nonfirm Power.....                           | —                                     | —                    | 415                                   | 10,171               | 415                                   | 10,171               |
| Total Power.....                             | 2,548                                 | 447,100              | 415                                   | 1,795,159            | 103,612                               | 8,888,581            |
| <b>Washington</b>                            |                                       |                      |                                       |                      |                                       |                      |
| PUD No 1 of Benton County/Dec 31             |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | —                                     | —                    | 50                                    | 1,350                | 12,210                                | 209,490              |
| Total Power.....                             | —                                     | —                    | 50                                    | 1,350                | 12,210                                | 209,490              |
| PUD No 1 of Chelan County/Dec 31             |                                       |                      |                                       |                      |                                       |                      |
| Firm Power.....                              | —                                     | —                    | 918,798                               | 9,998,876            | 1,326,160                             | 13,409,247           |
| Nonfirm Power.....                           | —                                     | —                    | 1,850,686                             | 17,164,895           | 9,952,373                             | 98,242,366           |
| Total Power.....                             | —                                     | —                    | 2,769,484                             | 27,163,771           | 11,278,533                            | 111,651,613          |
| PUD No 1 of Cowlitz County/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | —                                     | —                    | 1,912                                 | 63,902               | 11,239                                | 654,076              |
| Total Power.....                             | —                                     | —                    | 1,912                                 | 63,902               | 11,239                                | 654,076              |
| PUD No 1 of Douglas County/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | —                                     | —                    | 412,961                               | 2,105,974            | 4,517,480                             | 28,805,694           |
| Total Power.....                             | —                                     | —                    | 412,961                               | 2,105,974            | 4,517,480                             | 28,805,694           |
| PUD No 1 of Grays Harbor Cnty/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | —                                     | —                    | 32                                    | 2,430                | 11,996                                | 150,503              |
| Total Power.....                             | —                                     | —                    | 32                                    | 2,430                | 11,996                                | 150,503              |
| PUD No 1 of Pend Oreille Cnty/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | —                                     | —                    | —                                     | —                    | 110,784                               | 873,958              |
| Total Power.....                             | —                                     | —                    | —                                     | —                    | 110,784                               | 873,958              |
| PUD No 1 of Snohomish County/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | 224                                   | 2,352                | 620,702                               | 8,984,762            | 1,290,566                             | 19,221,419           |
| Total Power.....                             | 224                                   | 2,352                | 620,702                               | 8,984,762            | 1,290,566                             | 19,221,419           |
| PUD No 2 of Grant County/Dec 31              |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | —                                     | —                    | 1,532,508                             | 9,246,178            | 8,482,068                             | 46,752,016           |
| Total Power.....                             | —                                     | —                    | 1,532,508                             | 9,246,178            | 8,482,068                             | 46,752,016           |
| PUD No 3 of Mason County/Dec 31              |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power.....                           | —                                     | —                    | 3,579                                 | 106,068              | 3,579                                 | 106,068              |
| Total Power.....                             | —                                     | —                    | 3,579                                 | 106,068              | 3,579                                 | 106,068              |
| Washington Pub Pwr Supply Sys/Jun 30         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power.....                              | —                                     | —                    | 4,695                                 | 2,754,203            | 4,695                                 | 2,754,203            |
| Nonfirm Power.....                           | —                                     | —                    | 38,646                                | 835,205              | 5,983,050                             | 382,471,206          |
| Other Power.....                             | —                                     | —                    | —                                     | —                    | 1,831,103                             | —                    |
| Total Power.....                             | —                                     | —                    | 43,341                                | 3,589,408            | 7,818,848                             | 385,225,409          |
| <b>Wyoming</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Wyoming Municipal Pwr Agcy/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Firm Power.....                              | —                                     | —                    | —                                     | —                    | 195,269                               | 5,816,518            |
| Nonfirm Power.....                           | 11,578                                | 139,527              | —                                     | —                    | 11,578                                | 139,527              |
| Total Power.....                             | 11,578                                | 139,527              | —                                     | —                    | 206,847                               | 5,956,045            |

<sup>1</sup> Includes transactions with State and other government utilities, power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the public utilities are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities," except where footnoted.



**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Alabama</b>                               |                             |                   |                             |                   |                               |                   |
| Alabama Municipal Elec Auth/Sep 30           |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 2,395,460                   | 72,105,612        | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 56,232                        | 802,935           |
| Total Power .....                            | 2,395,460                   | 72,105,612        | —                           | —                 | 56,232                        | 802,935           |
| Albertville Municipal Utils Bd/Jun 30        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 485,045                     | 18,724,645        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 485,045                     | 18,724,645        | —                             | —                 |
| Andalusia City of/Sep 30                     |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Athens City of/Dec 31                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 798,708                     | 35,371,316        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 798,708                     | 35,371,316        | —                             | —                 |
| Bessemer City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 320,104                     | 14,641,345        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 320,104                     | 14,641,345        | —                             | —                 |
| Cullman Power Board/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 343,100                     | 15,344,655        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 343,100                     | 15,344,655        | —                             | —                 |
| Decatur City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,568,525                   | 58,327,450        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,568,525                   | 58,327,450        | —                             | —                 |
| Dothan City of/Sep 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 96,433                      | 3,295,774         | —                             | —                 |
| Total Power .....                            | —                           | —                 | 96,433                      | 3,295,774         | —                             | —                 |
| Florence City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,183,380                   | 53,168,698        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,183,380                   | 53,168,698        | —                             | —                 |
| Foley City of (Riviera Utils/Dec 31          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 36,540                      | 1,321,259         | —                             | —                 |
| Total Power .....                            | —                           | —                 | 36,540                      | 1,321,259         | —                             | —                 |
| Fort Payne Improvement Auth/Jun 30           |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 356,684                     | 16,094,610        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 356,684                     | 16,094,610        | —                             | —                 |
| Guntersville Electric Board/Jun 30           |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 251,916                     | 10,853,032        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 251,916                     | 10,853,032        | —                             | —                 |
| Huntsville City of/Sep 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 4,295,381                   | 186,878,348       | —                             | —                 |
| Total Power .....                            | —                           | —                 | 4,295,381                   | 186,878,348       | —                             | —                 |
| Opelika City of/Sep 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 35,870                      | 1,314,810         | —                             | —                 |
| Total Power .....                            | —                           | —                 | 35,870                      | 1,314,810         | —                             | —                 |
| Scottsboro City of/Jun 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 395,731                     | 15,754,882        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 395,731                     | 15,754,882        | —                             | —                 |
| Sheffield Utilities/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 458,495                     | 20,355,241        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 458,495                     | 20,355,241        | —                             | —                 |
| Sylacauga Utilities Board/Sep 30             |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| <b>Alaska</b>                                |                             |                   |                             |                   |                               |                   |
| Anchorage City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | 74,683                      | 1,423,342         | 90,333                        | 3,372,054         |
| Total Power .....                            | —                           | —                 | 74,683                      | 1,423,342         | 90,333                        | 3,372,054         |
| Fairbanks City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | 93,591            |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | 93,591            |
| Ketchikan City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 64,090                        | 4,204,066         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 64,090                        | 4,204,066         |
| <b>Arizona</b>                               |                             |                   |                             |                   |                               |                   |
| Mesa City of/Jun 30                          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| <b>Arkansas</b>                              |                             |                   |                             |                   |                               |                   |
| Benton City of/Dec 31                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Alabama</b>                               |                             |                   |                             |                   |                             |                   |
| Alabama Municipal Elec Auth/Sep 30           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 2,395,460                   | 72,105,612        |
| Nonfirm Power .....                          | —                           | —                 | 183,032                     | 2,553,863         | 239,264                     | 3,356,798         |
| Total Power .....                            | —                           | —                 | 183,032                     | 2,553,863         | 2,634,724                   | 75,462,410        |
| Albertville Municipal Utils Bd/Jun 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 485,045                     | 18,724,645        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 485,045                     | 18,724,645        |
| Andalusia City of/Sep 30                     |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 337,831                     | 11,492,822        | —                           | —                 | 337,831                     | 11,492,822        |
| Total Power .....                            | 337,831                     | 11,492,822        | —                           | —                 | 337,831                     | 11,492,822        |
| Athens City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 798,708                     | 35,371,316        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 798,708                     | 35,371,316        |
| Bessemer City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 320,104                     | 14,641,345        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 320,104                     | 14,641,345        |
| Cullman Power Board/Jun 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 343,100                     | 15,344,655        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 343,100                     | 15,344,655        |
| Decatur City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,568,525                   | 58,327,450        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,568,525                   | 58,327,450        |
| Dothan City of/Sep 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 994,245                     | 37,379,585        | 1,090,678                   | 40,675,359        |
| Total Power .....                            | —                           | —                 | 994,245                     | 37,379,585        | 1,090,678                   | 40,675,359        |
| Florence City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,183,380                   | 53,168,698        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,183,380                   | 53,168,698        |
| Foley City of (Riviera Utils/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 581,821                     | 25,617,938        | 618,361                     | 26,939,197        |
| Total Power .....                            | —                           | —                 | 581,821                     | 25,617,938        | 618,361                     | 26,939,197        |
| Fort Payne Improvement Auth/Jun 30           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 356,684                     | 16,094,610        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 356,684                     | 16,094,610        |
| Guntersville Electric Board/Jun 30           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 251,916                     | 10,853,032        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 251,916                     | 10,853,032        |
| Huntsville City of/Sep 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 4,295,381                   | 186,878,348       |
| Total Power .....                            | —                           | —                 | —                           | —                 | 4,295,381                   | 186,878,348       |
| Opelika City of/Sep 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 309,891                     | 12,328,782        | 345,761                     | 13,643,592        |
| Total Power .....                            | —                           | —                 | 309,891                     | 12,328,782        | 345,761                     | 13,643,592        |
| Scottsboro City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 395,731                     | 15,754,882        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 395,731                     | 15,754,882        |
| Sheffield Utilities/Jun 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 458,495                     | 20,355,241        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 458,495                     | 20,355,241        |
| Sylacauga Utilities Board/Sep 30             |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 157,464                     | 5,634,215         | 157,464                     | 5,634,215         |
| Total Power .....                            | —                           | —                 | 157,464                     | 5,634,215         | 157,464                     | 5,634,215         |
| <b>Alaska</b>                                |                             |                   |                             |                   |                             |                   |
| Anchorage City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 96                          | 3,907             | —                           | —                 | 165,112                     | 4,799,303         |
| Total Power .....                            | 96                          | 3,907             | —                           | —                 | 165,112                     | 4,799,303         |
| Fairbanks City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 43,474                      | 1,618,859         | 12,198                      | 253,633           | 55,672                      | 1,966,083         |
| Total Power .....                            | 43,474                      | 1,618,859         | 12,198                      | 253,633           | 55,672                      | 1,966,083         |
| Ketchikan City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 1,346                       | 102,306           | 65,436                      | 4,306,372         |
| Total Power .....                            | —                           | —                 | 1,346                       | 102,306           | 65,436                      | 4,306,372         |
| <b>Arizona</b>                               |                             |                   |                             |                   |                             |                   |
| Mesa City of/Jun 30                          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 355,977                     | 14,166,318        | 355,977                     | 14,166,318        |
| Total Power .....                            | —                           | —                 | 355,977                     | 14,166,318        | 355,977                     | 14,166,318        |
| <b>Arkansas</b>                              |                             |                   |                             |                   |                             |                   |
| Benton City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 187,449                     | 8,631,369         | 187,449                     | 8,631,369         |
| Total Power .....                            | —                           | —                 | 187,449                     | 8,631,369         | 187,449                     | 8,631,369         |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Arkansas</b>                              |                             |                   |                             |                   |                               |                   |
| Bentonville City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 220,157                     | 7,494,223         | 51,121                      | 767,322           | —                             | —                 |
| Total Power .....                            | 220,157                     | 7,494,223         | 51,121                      | 767,322           | —                             | —                 |
| Clarksville Light & Water Co/Sep 30          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 24,216                      | 723,460           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 24,216                      | 723,460           | —                             | —                 |
| Conway Corp/Dec 31                           |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 312,196                     | 11,225,568        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 312,196                     | 11,225,568        | —                           | —                 | —                             | —                 |
| Hope City of/Dec 31                          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 536,736                     | 18,174,224        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 536,736                     | 18,174,224        | —                           | —                 | —                             | —                 |
| Jonesboro City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | 171,000           | 96,000                      | 2,726,400         | —                             | —                 |
| Nonfirm Power .....                          | 231,048                     | 3,583,045         | 154,916                     | 805,563           | 3,750                         | 77,256            |
| Total Power .....                            | 231,048                     | 3,754,045         | 250,916                     | 3,531,963         | 3,750                         | 77,256            |
| North Little Rock City of/Dec 31             |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 910,000                     | 31,312,778        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 910,000                     | 31,312,778        | —                           | —                 | —                             | —                 |
| Osceola City of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 218,870                     | 5,438,338         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 218,870                     | 5,438,338         | —                           | —                 | —                             | —                 |
| Paragould Light & Water Comm/Dec 31          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 149,901                     | 2,511,252         | 223,703                       | 5,965,786         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | 149,901                     | 2,511,252         | 223,703                       | 5,965,786         |
| Siloam Springs City of/Dec 31                |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 213,724                       | 6,960,585         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 213,724                       | 6,960,585         |
| West Memphis City of/Dec 31                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 192,369                     | 12,534,188        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 192,369                     | 12,534,188        | —                           | —                 | —                             | —                 |
| <b>California</b>                            |                             |                   |                             |                   |                               |                   |
| Alameda City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 53,342                      | 1,466,245         | 394,628                       | 26,790,666        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | 53,342                      | 1,466,245         | 394,628                       | 26,790,666        |
| Anaheim City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 91,647                      | 6,739,853         | —                           | 718,800           | —                             | —                 |
| Nonfirm Power .....                          | 342,699                     | 3,524,543         | 56,163                      | 480,075           | 55,250                        | 628,220           |
| Total Power .....                            | 434,346                     | 10,264,396        | 56,163                      | 1,198,875         | 55,250                        | 628,220           |
| Azusa City of/Jun 30                         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 29,249                      | 1,363,582         | —                           | —                 | 238,997                       | 9,134,667         |
| Nonfirm Power .....                          | 18,630                      | 472,542           | 31,200                      | 553,800           | —                             | —                 |
| Total Power .....                            | 47,879                      | 1,836,124         | 31,200                      | 553,800           | 238,997                       | 9,134,667         |
| Burbank City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 21,957                      | 2,159,153         | 169,555                     | 4,412,257         | 73,781                        | 5,704,436         |
| Nonfirm Power .....                          | 29,598                      | 385,619           | 160,214                     | 4,335,738         | 11,514                        | 146,816           |
| Total Power .....                            | 51,555                      | 2,544,772         | 329,769                     | 8,747,995         | 85,295                        | 5,851,252         |
| Colton City of/Jun 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 61,483                      | 3,489,610         | 4,237                       | 147,845           | 195,272                       | 8,453,147         |
| Nonfirm Power .....                          | 17,347                      | 647,909           | —                           | —                 | —                             | —                 |
| Total Power .....                            | 78,830                      | 4,137,519         | 4,237                       | 147,845           | 195,272                       | 8,453,147         |
| Glendale City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 383,068                     | 7,763,000         | —                             | —                 |
| Nonfirm Power .....                          | 141,481                     | 4,075,000         | 670                         | 8,000             | 245,324                       | 11,159,000        |
| Total Power .....                            | 141,481                     | 4,075,000         | 383,738                     | 7,771,000         | 245,324                       | 11,159,000        |
| Lassen Municipal Utility Dist/Jun 30         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 7,519                       | 2,898,623         | 36,755                      | 961,971           | —                             | —                 |
| Nonfirm Power .....                          | 23,415                      | 599,695           | 9,726                       | 112,374           | 50,982                        | 305,642           |
| Total Power .....                            | 30,934                      | 3,498,318         | 46,481                      | 1,074,345         | 50,982                        | 305,642           |
| Lodi City of/Jun 30                          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 49,431                      | 1,144,723         | 326,245                       | 25,021,001        |
| Total Power .....                            | —                           | —                 | 49,431                      | 1,144,723         | 326,245                       | 25,021,001        |
| Los Angeles City of/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 921,012                     | 63,820,124        | —                           | —                 | 1,121,093                     | 93,538,717        |
| Nonfirm Power .....                          | 898,070                     | 16,515,402        | 1,899,612                   | 39,771,467        | 173,583                       | 51,275,171        |
| Other Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 1,819,082                   | 80,335,526        | 1,899,612                   | 39,771,467        | 1,294,676                     | 144,813,888       |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Arkansas</b>                              |                             |                   |                             |                   |                             |                   |
| Bentonville City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 271,278                     | 8,261,545         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 271,278                     | 8,261,545         |
| Clarksville Light & Water Co/Sep 30          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 194,220                     | 5,810,124         | —                           | —                 | 218,436                     | 6,533,584         |
| Total Power .....                            | 194,220                     | 5,810,124         | —                           | —                 | 218,436                     | 6,533,584         |
| Conway Corp/Dec 31                           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 312,196                     | 11,225,568        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 312,196                     | 11,225,568        |
| Hope City of/Dec 31                          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 536,736                     | 18,174,224        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 536,736                     | 18,174,224        |
| Jonesboro City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 13,255                      | 341,218           | 109,255                     | 3,238,618         |
| Nonfirm Power .....                          | 19,812                      | 273,142           | 331,873                     | 5,312,087         | 741,399                     | 10,051,093        |
| Total Power .....                            | 19,812                      | 273,142           | 345,128                     | 5,653,305         | 850,654                     | 13,289,711        |
| North Little Rock City of/Dec 31             |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 910,000                     | 31,312,778        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 910,000                     | 31,312,778        |
| Osceola City of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 218,870                     | 5,438,338         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 218,870                     | 5,438,338         |
| Paragould Light & Water Comm/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 373,604                     | 8,477,038         |
| Nonfirm Power .....                          | 2,588                       | 79,304            | 80,250                      | 1,593,360         | 82,838                      | 1,672,664         |
| Total Power .....                            | 2,588                       | 79,304            | 80,250                      | 1,593,360         | 456,442                     | 10,149,702        |
| Siloam Springs City of/Dec 31                |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 213,724                     | 6,960,585         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 213,724                     | 6,960,585         |
| West Memphis City of/Dec 31                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 192,369                     | 12,534,188        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 192,369                     | 12,534,188        |
| <b>California</b>                            |                             |                   |                             |                   |                             |                   |
| Alameda City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 447,970                     | 28,256,911        |
| Nonfirm Power .....                          | —                           | —                 | —                           | 571,583           | —                           | 571,583           |
| Total Power .....                            | —                           | —                 | —                           | 571,583           | 447,970                     | 28,828,494        |
| Anaheim City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 50,061                      | 7,583,836         | 1,018,452                   | 79,902,652        | 1,160,160                   | 94,945,141        |
| Nonfirm Power .....                          | 129,360                     | 1,820,895         | 229,478                     | 26,440,282        | 812,950                     | 32,894,015        |
| Total Power .....                            | 179,421                     | 9,404,731         | 1,247,930                   | 106,342,934       | 1,973,110                   | 127,839,156       |
| Azusa City of/Jun 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | 1,481,880         | 268,246                     | 11,980,129        |
| Nonfirm Power .....                          | —                           | —                 | 91,339                      | 1,388,100         | 141,169                     | 2,414,442         |
| Total Power .....                            | —                           | —                 | 91,339                      | 2,869,980         | 409,415                     | 14,394,571        |
| Burbank City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 2,246                       | 37,742            | 440,887                     | 26,882,496        | 708,426                     | 39,196,084        |
| Nonfirm Power .....                          | 37,619                      | 529,837           | 30,798                      | 376,718           | 269,743                     | 5,774,728         |
| Total Power .....                            | 39,865                      | 567,579           | 471,685                     | 27,259,214        | 978,169                     | 44,970,812        |
| Colton City of/Jun 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 384                         | 1,767,585         | 261,376                     | 13,858,187        |
| Nonfirm Power .....                          | —                           | —                 | 108,138                     | 1,239,067         | 125,485                     | 1,886,976         |
| Total Power .....                            | —                           | —                 | 108,522                     | 3,006,652         | 386,861                     | 15,745,163        |
| Glendale City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 383,068                     | 7,763,000         |
| Nonfirm Power .....                          | 20,032                      | 270,000           | 262,735                     | 15,174,000        | 670,242                     | 30,686,000        |
| Total Power .....                            | 20,032                      | 270,000           | 262,735                     | 15,174,000        | 1,053,310                   | 38,449,000        |
| Lassen Municipal Utility Dist/Jun 30         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 44,274                      | 3,860,594         |
| Nonfirm Power .....                          | —                           | —                 | 37,459                      | 435,782           | 121,582                     | 1,453,493         |
| Total Power .....                            | —                           | —                 | 37,459                      | 435,782           | 165,856                     | 5,314,087         |
| Lodi City of/Jun 30                          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 375,676                     | 26,165,724        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 375,676                     | 26,165,724        |
| Los Angeles City of/Jun 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 2,042,105                   | 157,358,841       |
| Nonfirm Power .....                          | 438,064                     | 16,932,075        | 7,136,743                   | 427,110,381       | 10,546,072                  | 551,604,496       |
| Other Power .....                            | —                           | —                 | 490,957                     | —                 | 490,957                     | —                 |
| Total Power .....                            | 438,064                     | 16,932,075        | 7,627,700                   | 427,110,381       | 13,079,134                  | 708,963,337       |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>California</b>                            |                             |                   |                             |                   |                               |                   |
| Palo Alto City of/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 683,116                     | 13,808,000        | 393,231                       | 10,048,000        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | 683,116                     | 13,808,000        | 393,231                       | 10,048,000        |
| Pasadena City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 222,344                     | 3,471,433         | 73,966                        | 5,698,524         |
| Nonfirm Power .....                          | 62,236                      | 832,485           | 58,047                      | 513,781           | 55,162                        | 5,552,885         |
| Total Power .....                            | 62,236                      | 832,485           | 280,391                     | 3,985,214         | 129,128                       | 11,251,409        |
| Redding City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 588,883                     | 20,055,954        | 432,628                     | 10,704,704        | 65,700                        | 3,455,990         |
| Nonfirm Power .....                          | 33,997                      | 507,715           | 8,444                       | 103,692           | 167,341                       | 3,790,952         |
| Total Power .....                            | 622,880                     | 20,563,669        | 441,072                     | 10,808,396        | 233,041                       | 7,246,942         |
| Riverside City of/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 170,017                     | 11,467,531        | 39,785                      | 1,734,335         | 102,902                       | 8,392,020         |
| Nonfirm Power .....                          | 131,563                     | 1,688,591         | 66,355                      | 616,635           | 168,440                       | 1,731,266         |
| Total Power .....                            | 301,580                     | 13,156,122        | 106,140                     | 2,350,970         | 271,342                       | 10,123,286        |
| Roseville City of/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | 361,473                     | 7,997,842         | 321,127                       | 20,922,689        |
| Total Power .....                            | —                           | —                 | 361,473                     | 7,997,842         | 321,127                       | 20,922,689        |
| San Francisco City & County of/Jun 30        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 141                         | 12,143,539        | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 8,646                       | 147,193           | 44,181                      | 480,004           | 206,627                       | 3,935,333         |
| Total Power .....                            | 8,787                       | 12,290,732        | 44,181                      | 480,004           | 206,627                       | 3,935,333         |
| Santa Clara City of/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 153,754                     | 13,908,004        | 153,300                     | 8,051,800         | —                             | —                 |
| Nonfirm Power .....                          | 101,291                     | 1,060,028         | 166,132                     | 1,607,989         | 114,351                       | 1,265,738         |
| Other Power .....                            | —                           | —                 | —                           | —                 | 978,666                       | —                 |
| Total Power .....                            | 255,045                     | 14,968,032        | 319,432                     | 9,659,789         | 1,093,017                     | 1,265,738         |
| Turlock Irrigation Dist/Dec 31               |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 35,596                      | 3,632,993         | 17,766                      | 356,925           | 181,844                       | 20,647,330        |
| Nonfirm Power .....                          | 117,835                     | 1,456,924         | 23,239                      | 295,208           | 13,252                        | 186,847           |
| Total Power .....                            | 153,431                     | 5,089,917         | 41,005                      | 652,133           | 195,096                       | 20,834,177        |
| Vernon City of/Jun 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 136,575                     | 3,353,835         | 28,645                      | 478,054           | 351,240                       | 7,889,784         |
| Nonfirm Power .....                          | 14,319                      | 208,336           | 99,079                      | 1,075,117         | 215,183                       | 2,438,331         |
| Total Power .....                            | 150,894                     | 3,562,171         | 127,724                     | 1,553,171         | 566,423                       | 10,328,115        |
| <b>Colorado</b>                              |                             |                   |                             |                   |                               |                   |
| Colorado Springs City of/Dec 31              |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 376,041                     | 7,674,473         | —                             | —                 |
| Nonfirm Power .....                          | 118,264                     | 2,497,364         | 122,441                     | 1,736,167         | 1,190                         | 30,198            |
| Total Power .....                            | 118,264                     | 2,497,364         | 498,482                     | 9,410,640         | 1,190                         | 30,198            |
| Fort Collins City of/Dec 31                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,042,109                     | 36,631,507        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,042,109                     | 36,631,507        |
| Fort Morgan City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 76,926                      | 2,024,315         | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 115,184                       | 2,624,977         |
| Total Power .....                            | —                           | —                 | 76,926                      | 2,024,315         | 115,184                       | 2,624,977         |
| Longmont City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 535,939                       | 18,789,239        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 535,939                       | 18,789,239        |
| Loveland City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 450,971                       | 15,230,634        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 450,971                       | 15,230,634        |
| <b>Connecticut</b>                           |                             |                   |                             |                   |                               |                   |
| Mun Electric Engy Coop/Dec 31                |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 1,123,454                   | 58,263,459        | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 619,681                     | 22,393,603        | —                           | —                 | 89,046                        | 1,235,539         |
| Total Power .....                            | 1,743,135                   | 80,657,062        | —                           | —                 | 89,046                        | 1,235,539         |
| Groton City of/Jun 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Norwich City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Wallingford Town of/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>California</b>                            |                             |                   |                             |                   |                             |                   |
| Palo Alto City of/ Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,076,347                   | 23,856,000        |
| Nonfirm Power .....                          | —                           | —                 | 25,460                      | 636,000           | 25,460                      | 636,000           |
| Total Power .....                            | —                           | —                 | 25,460                      | 636,000           | 1,101,807                   | 24,492,000        |
| Pasadena City of/ Jun 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 500,469                     | 37,022,600        | 796,779                     | 46,192,557        |
| Nonfirm Power .....                          | 19,012                      | 248,898           | 78,391                      | 3,214,156         | 272,848                     | 10,362,205        |
| Total Power .....                            | 19,012                      | 248,898           | 578,860                     | 40,236,756        | 1,069,627                   | 56,554,762        |
| Redding City of/ Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,087,211                   | 34,216,648        |
| Nonfirm Power .....                          | —                           | —                 | 19,845                      | 280,477           | 229,627                     | 4,682,836         |
| Total Power .....                            | —                           | —                 | 19,845                      | 280,477           | 1,316,838                   | 38,899,484        |
| Riverside City of/ Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 69,796                      | 10,930,510        | 614,533                     | 45,963,169        | 997,033                     | 78,487,565        |
| Nonfirm Power .....                          | 92,907                      | 1,169,866         | 4,490                       | 57,662            | 463,755                     | 5,264,020         |
| Total Power .....                            | 162,703                     | 12,100,376        | 619,023                     | 46,020,831        | 1,460,788                   | 83,751,585        |
| Roseville City of/ Jun 30                    |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 682,600                     | 28,920,531        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 682,600                     | 28,920,531        |
| San Francisco City & County of/ Jun 30       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 141                         | 12,143,539        |
| Nonfirm Power .....                          | —                           | —                 | 4,410                       | 73,107            | 263,864                     | 4,635,637         |
| Total Power .....                            | —                           | —                 | 4,410                       | 73,107            | 264,005                     | 16,779,176        |
| Santa Clara City of/ Jun 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 307,054                     | 21,959,804        |
| Nonfirm Power .....                          | —                           | —                 | 137,424                     | 1,188,966         | 519,198                     | 5,122,721         |
| Other Power .....                            | —                           | —                 | 34,720                      | —                 | 1,013,386                   | —                 |
| Total Power .....                            | —                           | —                 | 172,144                     | 1,188,966         | 1,839,638                   | 27,082,525        |
| Turlock Irrigation Dist/ Dec 31              |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 430,980                     | 21,475,004        | 666,186                     | 46,112,252        |
| Nonfirm Power .....                          | —                           | —                 | 8,477                       | 6,974,602         | 162,803                     | 8,913,581         |
| Total Power .....                            | —                           | —                 | 439,457                     | 28,449,606        | 828,989                     | 55,025,833        |
| Vernon City of/ Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 81,617                      | 6,620,216         | 598,077                     | 18,341,889        |
| Nonfirm Power .....                          | —                           | —                 | 147,509                     | 1,653,119         | 476,090                     | 5,374,903         |
| Total Power .....                            | —                           | —                 | 229,126                     | 8,273,335         | 1,074,167                   | 23,716,792        |
| <b>Colorado</b>                              |                             |                   |                             |                   |                             |                   |
| Colorado Springs City of/ Dec 31             |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 268,544                     | 5,449,452         | —                           | —                 | 644,585                     | 13,123,925        |
| Nonfirm Power .....                          | 87,972                      | 1,461,674         | 58,316                      | 839,554           | 388,183                     | 6,564,957         |
| Total Power .....                            | 356,516                     | 6,911,126         | 58,316                      | 839,554           | 1,032,768                   | 19,688,882        |
| Fort Collins City of/ Dec 31                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,042,109                   | 36,631,507        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,042,109                   | 36,631,507        |
| Fort Morgan City of/ Dec 31                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 76,926                      | 2,024,315         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 115,184                     | 2,624,977         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 192,110                     | 4,649,292         |
| Longmont City of/ Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 535,939                     | 18,789,239        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 535,939                     | 18,789,239        |
| Loveland City of/ Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 450,971                     | 15,230,634        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 450,971                     | 15,230,634        |
| <b>Connecticut</b>                           |                             |                   |                             |                   |                             |                   |
| Mun Electric Engy Coop/ Dec 31               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 2,210                       | 2,108,194         | 1,125,664                   | 60,371,653        |
| Nonfirm Power .....                          | —                           | —                 | 198,812                     | 4,281,604         | 907,539                     | 27,910,746        |
| Total Power .....                            | —                           | —                 | 201,022                     | 6,389,798         | 2,033,203                   | 88,282,399        |
| Groton City of/ Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 646,759                     | 35,764,371        | 646,759                     | 35,764,371        |
| Total Power .....                            | —                           | —                 | 646,759                     | 35,764,371        | 646,759                     | 35,764,371        |
| Norwich City of/ Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 321,035                     | 18,036,905        | 321,035                     | 18,036,905        |
| Total Power .....                            | —                           | —                 | 321,035                     | 18,036,905        | 321,035                     | 18,036,905        |
| Wallingford Town of/ Jun 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 595,947                     | 25,002,692        | 595,947                     | 25,002,692        |
| Total Power .....                            | —                           | —                 | 595,947                     | 25,002,692        | 595,947                     | 25,002,692        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other Government  |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Delaware</b>                              |                             |                   |                             |                   |                             |                   |
| Dover City of/Jun 30                         |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 276,826                     | 10,211,939        | —                           | —                 | —                           | —                 |
| Total Power .....                            | 276,826                     | 10,211,939        | —                           | —                 | —                           | —                 |
| Milford City of/Sep 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 116,421                     | 4,889,165         | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | 116,421                     | 4,889,165         | —                           | —                 | —                           | —                 |
| Newark City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 253,662                     | 10,902,000        | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | 253,662                     | 10,902,000        | —                           | —                 | —                           | —                 |
| <b>Florida</b>                               |                             |                   |                             |                   |                             |                   |
| Bartow City of/Sep 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 282,506                     | 14,694,422        | —                           | —                 | —                           | —                 |
| Total Power .....                            | 282,506                     | 14,694,422        | —                           | —                 | —                           | —                 |
| Florida Municipal Power Agency/Sep 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 817,457                     | 32,405,427        | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | 817,457                     | 32,405,427        | —                           | —                 | —                           | —                 |
| Fort Pierce Utilities Au/Sep 30              |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 11,961                      | 357,213           | —                           | —                 | —                           | —                 |
| Total Power .....                            | 11,961                      | 357,213           | —                           | —                 | —                           | —                 |
| Gainesville Regional Utilities/Sep 30        |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 117,567                     | 3,061,553         | —                           | —                 | —                           | —                 |
| Total Power .....                            | 117,567                     | 3,061,553         | —                           | —                 | —                           | —                 |
| Homestead City of/Sep 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 36,124                      | 2,809,780         | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 37,322                      | 864,783           | —                           | —                 | —                           | —                 |
| Total Power .....                            | 73,446                      | 3,674,563         | —                           | —                 | —                           | —                 |
| Jacksonville Beach City/Sep 30               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Jacksonville Elec Auth/Sep 30                |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 46,013                      | 1,112,464         | —                           | —                 | 228,166                     | 3,967,394         |
| Total Power .....                            | 46,013                      | 1,112,464         | —                           | —                 | 228,166                     | 3,967,394         |
| Key West City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 413,069                     | 15,498,426        | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 6,443                       | 157,547           | —                           | —                 | —                           | —                 |
| Total Power .....                            | 419,512                     | 15,655,973        | —                           | —                 | —                           | —                 |
| Kissimmee Utility Auth/Sep 30                |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 14,970                      | 3,013,424         | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 18,751                      | 457,459           | —                           | —                 | —                           | —                 |
| Total Power .....                            | 33,721                      | 3,470,883         | —                           | —                 | —                           | —                 |
| Lake Worth City of/Sep 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 29,647                      | 835,827           | —                           | —                 | —                           | —                 |
| Total Power .....                            | 29,647                      | 835,827           | —                           | —                 | —                           | —                 |
| Lakeland City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 54,574                      | 1,025,447         | —                           | —                 | —                           | —                 |
| Total Power .....                            | 54,574                      | 1,025,447         | —                           | —                 | —                           | —                 |
| Leesburg City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| New Smyrna Beach Utils Comm/Sep 30           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 251,842                     | 9,276,257         | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 8,574                       | 336,976           | —                           | —                 | —                           | —                 |
| Total Power .....                            | 260,416                     | 9,613,233         | —                           | —                 | —                           | —                 |
| Ocala City of/Sep 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Orlando Utilities Comm/Sep 30                |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 402,885                     | 8,546,743         | —                           | —                 | —                           | —                 |
| Total Power .....                            | 402,885                     | 8,546,743         | —                           | —                 | —                           | —                 |
| Quincy City of/Sep 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 110,833                     | 4,962,683         | 47,168                      | 1,234,053         | —                           | —                 |
| Total Power .....                            | 110,833                     | 4,962,683         | 47,168                      | 1,234,053         | —                           | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Delaware</b>                              |                             |                   |                             |                   |                             |                   |
| Dover City of/Jun 30                         |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 67,121                      | 1,406,779         | 343,947                     | 11,618,718        |
| Total Power .....                            | —                           | —                 | 67,121                      | 1,406,779         | 343,947                     | 11,618,718        |
| Milford City of/Sep 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 116,421                     | 4,889,165         |
| Nonfirm Power .....                          | —                           | —                 | 44,783                      | 1,377,009         | 44,783                      | 1,377,009         |
| Total Power .....                            | —                           | —                 | 44,783                      | 1,377,009         | 161,204                     | 6,266,174         |
| Newark City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 253,662                     | 10,902,000        |
| Nonfirm Power .....                          | —                           | —                 | 90,475                      | 2,784,000         | 90,475                      | 2,784,000         |
| Total Power .....                            | —                           | —                 | 90,475                      | 2,784,000         | 344,137                     | 13,686,000        |
| <b>Florida</b>                               |                             |                   |                             |                   |                             |                   |
| Bartow City of/Sep 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 282,506                     | 14,694,422        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 282,506                     | 14,694,422        |
| Florida Municipal Power Agency/Sep 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 933,853                     | 32,124,203        | 1,751,310                   | 64,529,630        |
| Nonfirm Power .....                          | 15,048                      | 289,488           | 44,642                      | 1,396,462         | 59,690                      | 1,685,950         |
| Total Power .....                            | 15,048                      | 289,488           | 978,495                     | 33,520,665        | 1,811,000                   | 66,215,580        |
| Fort Pierce Utilities Au/Sep 30              |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 1,022                       | 17,740            | 361,668                     | 15,349,993        | 374,651                     | 15,724,946        |
| Total Power .....                            | 1,022                       | 17,740            | 361,668                     | 15,349,993        | 374,651                     | 15,724,946        |
| Gainesville Regional Utilities/Sep 30        |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 5,692                       | 122,381           | 83,518                      | 1,953,931         | 206,777                     | 5,137,865         |
| Total Power .....                            | 5,692                       | 122,381           | 83,518                      | 1,953,931         | 206,777                     | 5,137,865         |
| Homestead City of/Sep 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 158,429                     | 6,521,246         | 194,553                     | 9,331,026         |
| Nonfirm Power .....                          | 6,234                       | 121,212           | 18,613                      | 588,749           | 62,169                      | 1,574,744         |
| Total Power .....                            | 6,234                       | 121,212           | 177,042                     | 7,109,995         | 256,722                     | 10,905,770        |
| Jacksonville Beach City/Sep 30               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 630,000                     | 27,797,055        | 630,000                     | 27,797,055        |
| Nonfirm Power .....                          | —                           | —                 | —                           | 2,792,431         | —                           | 2,792,431         |
| Total Power .....                            | —                           | —                 | 630,000                     | 30,589,486        | 630,000                     | 30,589,486        |
| Jacksonville Elec Auth/Sep 30                |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 1,306,593                   | 50,572,366        | 1,306,593                   | 50,572,366        |
| Nonfirm Power .....                          | 349,068                     | 7,155,293         | 739,364                     | 14,853,808        | 1,362,611                   | 27,088,959        |
| Total Power .....                            | 349,068                     | 7,155,293         | 2,045,957                   | 65,426,174        | 2,669,204                   | 77,661,325        |
| Key West City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 129,299                     | 6,032,516         | 542,368                     | 21,530,942        |
| Nonfirm Power .....                          | 3,436                       | 2,243,058         | 68,980                      | 2,064,357         | 78,859                      | 4,464,962         |
| Total Power .....                            | 3,436                       | 2,243,058         | 198,279                     | 8,096,873         | 621,227                     | 25,995,904        |
| Kissimmee Utility Auth/Sep 30                |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 467                         | 870,616           | 15,437                      | 3,884,040         |
| Nonfirm Power .....                          | 1,169                       | 27,857            | 464,943                     | 16,037,855        | 484,863                     | 16,523,171        |
| Total Power .....                            | 1,169                       | 27,857            | 465,410                     | 16,908,471        | 500,300                     | 20,407,211        |
| Lake Worth City of/Sep 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 175,625                     | 4,554,756         | 175,625                     | 4,554,756         |
| Nonfirm Power .....                          | 21,752                      | 449,482           | 13,780                      | 344,567           | 65,179                      | 1,629,876         |
| Total Power .....                            | 21,752                      | 449,482           | 189,405                     | 4,899,323         | 240,804                     | 6,184,632         |
| Lakeland City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 95,626                      | 2,223,851         | 95,626                      | 2,223,851         |
| Nonfirm Power .....                          | 26                          | 449               | 317,836                     | 8,084,872         | 372,436                     | 9,110,768         |
| Total Power .....                            | 26                          | 449               | 413,462                     | 10,308,723        | 468,062                     | 11,334,619        |
| Leesburg City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 424,000                     | 16,792,678        | 424,000                     | 16,792,678        |
| Total Power .....                            | —                           | —                 | 424,000                     | 16,792,678        | 424,000                     | 16,792,678        |
| New Smyrna Beach Utils Comm/Sep 30           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 5,127                       | 392,032           | 256,969                     | 9,668,289         |
| Nonfirm Power .....                          | 207                         | 7,588             | 44,976                      | 3,446,425         | 53,757                      | 3,790,989         |
| Total Power .....                            | 207                         | 7,588             | 50,103                      | 3,838,457         | 310,726                     | 13,459,278        |
| Ocala City of/Sep 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 1,071,766                   | 47,508,982        | 1,071,766                   | 47,508,982        |
| Total Power .....                            | —                           | —                 | 1,071,766                   | 47,508,982        | 1,071,766                   | 47,508,982        |
| Orlando Utilities Comm/Sep 30                |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 5,594                       | 107,143           | 269,080                     | 5,638,300         | 677,559                     | 14,292,186        |
| Total Power .....                            | 5,594                       | 107,143           | 269,080                     | 5,638,300         | 677,559                     | 14,292,186        |
| Quincy City of/Sep 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 158,001                     | 6,196,736         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 158,001                     | 6,196,736         |

See notes and footnotes at end of table.



**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other Government  |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Florida</b>                               |                             |                   |                             |                   |                             |                   |
| Reedy Creek Improvement Dist/Sep 30          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 359,656                     | 13,059,876        | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 65,305                      | 1,869,393         | —                           | —                 | —                           | —                 |
| Total Power .....                            | 424,961                     | 14,929,269        | —                           | —                 | —                           | —                 |
| St Cloud City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | 4,438,710         | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | 4,438,710         | —                           | —                 | —                           | —                 |
| Tallahassee City of/Sep 30                   |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 46,822                      | 1,012,394         | —                           | —                 | 14,954                      | 271,067           |
| Total Power .....                            | 46,822                      | 1,012,394         | —                           | —                 | 14,954                      | 271,067           |
| Vero Beach City of/Sep 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 29,926                      | 757,471           | —                           | —                 | —                           | —                 |
| Total Power .....                            | 29,926                      | 757,471           | —                           | —                 | —                           | —                 |
| <b>Georgia</b>                               |                             |                   |                             |                   |                             |                   |
| Albany Water Gas & Light/June 30             |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 110,647                     | 2,720,819         | 867,288                     | 43,240,711        |
| Total Power .....                            | —                           | —                 | 110,647                     | 2,720,819         | 867,288                     | 43,240,711        |
| Calhoun City of/June 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 344,131                     | 16,407,086        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 344,131                     | 16,407,086        |
| Cartersville City of/June 30                 |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 31,640                      | 777,600           | 479,145                     | 20,775,800        |
| Total Power .....                            | —                           | —                 | 31,640                      | 777,600           | 479,145                     | 20,775,800        |
| College Park City of/June 30                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 11,689                      | 14,777,159        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 11,689                      | 14,777,159        |
| Covington City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 14,673                      | 408,131           | 225,505                     | 12,071,278        |
| Total Power .....                            | —                           | —                 | 14,673                      | 408,131           | 225,505                     | 12,071,278        |
| Dalton City of/Nov 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 538,905                     | 16,765,000        | 73,371                      | 1,829,000         | —                           | —                 |
| Total Power .....                            | 538,905                     | 16,765,000        | 73,371                      | 1,829,000         | —                           | —                 |
| Douglas City of/June 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 19,070                      | 462,403           | 234,056                     | 11,914,974        |
| Total Power .....                            | —                           | —                 | 19,070                      | 462,403           | 234,056                     | 11,914,974        |
| East Point City of/June 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 62,503                      | 1,527,134         | 251,015                     | 15,000,179        |
| Total Power .....                            | —                           | —                 | 62,503                      | 1,527,134         | 251,015                     | 15,000,179        |
| Fitzgerald Wtr Lgt & Bnd/Dec 31              |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 16,285                      | 422,302           | 197,027                     | 10,263,953        |
| Total Power .....                            | —                           | —                 | 16,285                      | 422,302           | 197,027                     | 10,263,953        |
| Griffin City of/June 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 33,431                      | 821,514           | 291,949                     | 16,525,372        |
| Total Power .....                            | —                           | —                 | 33,431                      | 821,514           | 291,949                     | 16,525,372        |
| La Grange City of/June 30                    |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 496,111                     | 22,287,771        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 496,111                     | 22,287,771        |
| Lawrenceville City of/Aug 31                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 239,875                     | 12,790,837        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 239,875                     | 12,790,837        |
| Marietta City of/June 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 66,656                      | 1,650,220         | 893,865                     | 50,872,073        |
| Total Power .....                            | —                           | —                 | 66,656                      | 1,650,220         | 893,865                     | 50,872,073        |
| Moultrie City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 28,926                      | 701,363           | —                           | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 153,847                     | 8,684,554         |
| Total Power .....                            | —                           | —                 | 28,926                      | 701,363           | 153,847                     | 8,684,554         |
| Thomasville City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 43,153                      | 1,104,712         | 444,151                     | 21,865,958        |
| Total Power .....                            | —                           | —                 | 43,153                      | 1,104,712         | 444,151                     | 21,865,958        |
| <b>Idaho</b>                                 |                             |                   |                             |                   |                             |                   |
| Idaho Falls City of/Sep 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 533,556                     | 15,997,985        | —                           | —                 |
| Total Power .....                            | —                           | —                 | 533,556                     | 15,997,985        | —                           | —                 |
| <b>Illinois</b>                              |                             |                   |                             |                   |                             |                   |
| Batavia City of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 265,718                     | 11,577,263        | —                           | —                 | —                           | —                 |
| Total Power .....                            | 265,718                     | 11,577,263        | —                           | —                 | —                           | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Florida</b>                               |                             |                   |                             |                   |                             |                   |
| Reedy Creek Improvement Dist/Sep 30          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 280,000                     | 15,543,944        | 639,656                     | 28,603,820        |
| Nonfirm Power .....                          | 84,878                      | 1,540,827         | 54,382                      | 928,278           | 204,565                     | 4,338,498         |
| Total Power .....                            | 84,878                      | 1,540,827         | 334,382                     | 16,472,222        | 844,221                     | 32,942,318        |
| St Cloud City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 286,692                     | 8,832,526         | 286,692                     | 13,271,236        |
| Total Power .....                            | —                           | —                 | 286,692                     | 8,832,526         | 286,692                     | 13,271,236        |
| Tallahassee City of/Sep 30                   |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 125,891                     | 3,304,688         | 982,649                     | 35,161,124        | 1,170,316                   | 39,749,273        |
| Total Power .....                            | 125,891                     | 3,304,688         | 982,649                     | 35,161,124        | 1,170,316                   | 39,749,273        |
| Vero Beach City of/Sep 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 254,592                     | 13,976,781        | 254,592                     | 13,976,781        |
| Nonfirm Power .....                          | 1,530                       | 31,557            | 6,239                       | 244,329           | 37,695                      | 1,033,357         |
| Total Power .....                            | 1,530                       | 31,557            | 260,831                     | 14,221,110        | 292,287                     | 15,010,138        |
| <b>Georgia</b>                               |                             |                   |                             |                   |                             |                   |
| Albany Water Gas & Light/June 30             |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 977,935                     | 45,961,530        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 977,935                     | 45,961,530        |
| Calhoun City of/June 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 344,131                     | 16,407,086        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 344,131                     | 16,407,086        |
| Cartersville City of/June 30                 |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 510,785                     | 21,553,400        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 510,785                     | 21,553,400        |
| College Park City of/June 30                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 11,689                      | 14,777,159        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 11,689                      | 14,777,159        |
| Covington City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 240,178                     | 12,479,409        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 240,178                     | 12,479,409        |
| Dalton City of/Nov 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 612,276                     | 18,594,000        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 612,276                     | 18,594,000        |
| Douglas City of/June 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 253,126                     | 12,377,377        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 253,126                     | 12,377,377        |
| East Point City of/June 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 313,518                     | 16,527,313        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 313,518                     | 16,527,313        |
| Fitzgerald Wtr Lgt & Bnd/Dec 31              |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 213,312                     | 10,686,255        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 213,312                     | 10,686,255        |
| Griffin City of/June 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 325,380                     | 17,346,886        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 325,380                     | 17,346,886        |
| La Grange City of/June 30                    |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 496,111                     | 22,287,771        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 496,111                     | 22,287,771        |
| Lawrenceville City of/Aug 31                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 239,875                     | 12,790,837        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 239,875                     | 12,790,837        |
| Marietta City of/June 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 960,521                     | 52,522,293        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 960,521                     | 52,522,293        |
| Moultrie City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 28,926                      | 701,363           |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 153,847                     | 8,684,554         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 182,773                     | 9,385,917         |
| Thomasville City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 487,304                     | 22,970,670        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 487,304                     | 22,970,670        |
| <b>Idaho</b>                                 |                             |                   |                             |                   |                             |                   |
| Idaho Falls City of/Sep 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 533,556                     | 15,997,985        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 533,556                     | 15,997,985        |
| <b>Illinois</b>                              |                             |                   |                             |                   |                             |                   |
| Batavia City of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 265,718                     | 11,577,263        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 265,718                     | 11,577,263        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Illinois</b>                              |                             |                   |                             |                   |                               |                   |
| Geneva City of/Apr 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 201,449                     | 6,641,861         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 201,449                     | 6,641,861         | —                           | —                 | —                             | —                 |
| Illinois Municipal Elec Agency/Apr 30        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 1,067,253                   | 36,255,927        | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 29,792                      | 475,436           | —                           | —                 | —                             | —                 |
| Total Power .....                            | 1,097,045                   | 36,731,363        | —                           | —                 | —                             | —                 |
| Naperville City of/Apr 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 830,989                     | 35,585,836        | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 830,989                     | 35,585,836        | —                           | —                 | —                             | —                 |
| Rochelle Municipal Utilities/Apr 30          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 180,862                     | 5,631,039         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 180,862                     | 5,631,039         | —                           | —                 | —                             | —                 |
| Springfield City of/Feb 28                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 58,000                      | 727,275           | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 14,500                      | 22,909            | —                           | —                 | —                             | —                 |
| Total Power .....                            | 72,500                      | 750,184           | —                           | —                 | —                             | —                 |
| St Charles City of/Apr 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 422,735                     | 17,846,823        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 422,735                     | 17,846,823        | —                           | —                 | —                             | —                 |
| <b>Indiana</b>                               |                             |                   |                             |                   |                               |                   |
| Anderson City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 706,623                       | 27,379,089        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 706,623                       | 27,379,089        |
| Auburn City of/Dec 31                        |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 483,840                     | 17,580,586        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 483,840                     | 17,580,586        | —                           | —                 | —                             | —                 |
| Bluffton City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Crawfordsville Elec Lgt&Pwr Co/Dec 31        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 388,226                       | 13,652,837        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 388,226                       | 13,652,837        |
| Frankfort City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 341,190                       | 12,094,059        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 341,190                       | 12,094,059        |
| Greenfield City of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 197,388                       | 7,166,539         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 197,388                       | 7,166,539         |
| Jasper City of/Dec 31                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 237,444                     | 9,010,068         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 237,444                     | 9,010,068         | —                           | —                 | —                             | —                 |
| Lebanon City of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 148,032                       | 5,793,871         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 148,032                       | 5,793,871         |
| Logansport City of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Mishawaka City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Peru City of/Dec 31                          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 222,505                       | 5,707,625         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 222,505                       | 5,707,625         |
| Richmond City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 354,759                       | 14,718,160        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 354,759                       | 14,718,160        |
| Scottsburg City of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 184,320                       | 6,580,212         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 184,320                       | 6,580,212         |
| Washington City of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 169,331                       | 6,262,770         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 169,331                       | 6,262,770         |
| <b>Iowa</b>                                  |                             |                   |                             |                   |                               |                   |
| Ames City of/Jun 30                          |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 123,070                     | 1,823,313         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 123,070                     | 1,823,313         | —                           | —                 | —                             | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Illinois</b>                              |                             |                   |                             |                   |                             |                   |
| Geneva City of/Apr 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 22,484                      | 790,000           | 223,933                     | 7,431,861         |
| Total Power .....                            | —                           | —                 | 22,484                      | 790,000           | 223,933                     | 7,431,861         |
| Illinois Municipal Elec Agency/Apr 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,067,253                   | 36,255,927        |
| Nonfirm Power .....                          | —                           | —                 | 85,648                      | 1,573,489         | 115,440                     | 2,048,925         |
| Total Power .....                            | —                           | —                 | 85,648                      | 1,573,489         | 1,182,693                   | 38,304,852        |
| Naperville City of/Apr 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 830,989                     | 35,585,836        |
| Nonfirm Power .....                          | —                           | —                 | 16,376                      | 354,206           | 16,376                      | 354,206           |
| Total Power .....                            | —                           | —                 | 16,376                      | 354,206           | 847,365                     | 35,940,042        |
| Rochelle Municipal Utilities/Apr 30          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 180,862                     | 5,631,039         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 180,862                     | 5,631,039         |
| Springfield City of/Feb 28                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 58,000                      | 727,275           |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 14,500                      | 22,909            |
| Total Power .....                            | —                           | —                 | —                           | —                 | 72,500                      | 750,184           |
| St Charles City of/Apr 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 422,735                     | 17,846,823        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 422,735                     | 17,846,823        |
| <b>Indiana</b>                               |                             |                   |                             |                   |                             |                   |
| Anderson City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 706,623                     | 27,379,089        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 706,623                     | 27,379,089        |
| Auburn City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 483,840                     | 17,580,586        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 483,840                     | 17,580,586        |
| Bluffton City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 181,898                     | 6,895,892         | 181,898                     | 6,895,892         |
| Total Power .....                            | —                           | —                 | 181,898                     | 6,895,892         | 181,898                     | 6,895,892         |
| Crawfordsville Elec Lgt&Pwr Co/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 388,226                     | 13,652,837        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 388,226                     | 13,652,837        |
| Frankfort City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 341,190                     | 12,094,059        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 341,190                     | 12,094,059        |
| Greenfield City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 197,388                     | 7,166,539         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 197,388                     | 7,166,539         |
| Jasper City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 237,444                     | 9,010,068         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 237,444                     | 9,010,068         |
| Lebanon City of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 148,032                     | 5,793,871         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 148,032                     | 5,793,871         |
| Logansport City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 193,890                     | 5,990,936         | 193,890                     | 5,990,936         |
| Total Power .....                            | —                           | —                 | 193,890                     | 5,990,936         | 193,890                     | 5,990,936         |
| Mishawaka City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 522,156                     | 21,380,231        | 522,156                     | 21,380,231        |
| Total Power .....                            | —                           | —                 | 522,156                     | 21,380,231        | 522,156                     | 21,380,231        |
| Peru City of/Dec 31                          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 222,505                     | 5,707,625         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 222,505                     | 5,707,625         |
| Richmond City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 354,759                     | 14,718,160        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 354,759                     | 14,718,160        |
| Scottsburg City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 184,320                     | 6,580,212         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 184,320                     | 6,580,212         |
| Washington City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 169,331                     | 6,262,770         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 169,331                     | 6,262,770         |
| <b>Iowa</b>                                  |                             |                   |                             |                   |                             |                   |
| Ames City of/Jun 30                          |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 123,070                     | 1,823,313         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 123,070                     | 1,823,313         |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Iowa</b>                                  |                             |                   |                             |                   |                               |                   |
| Cedar Falls City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 113,512                     | 1,227,608         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 113,512                     | 1,227,608         | —                           | —                 | —                             | —                 |
| Muscatine City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 20,809                      | 305,832           | 1,172                       | 17,406            | 19,558                        | 268,252           |
| Total Power .....                            | 20,809                      | 305,832           | 1,172                       | 17,406            | 19,558                        | 268,252           |
| Pella City of/Dec 31                         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 22,971                      | 494,749           | —                           | —                 | —                             | —                 |
| Total Power .....                            | 22,971                      | 494,749           | —                           | —                 | —                             | —                 |
| <b>Kansas</b>                                |                             |                   |                             |                   |                               |                   |
| Chanute City of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 207,250                     | 7,385,282         | 3,205                       | 72,709            | —                             | —                 |
| Total Power .....                            | 207,250                     | 7,385,282         | 3,205                       | 72,709            | —                             | —                 |
| Coffeyville City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 5,498                       | 136,093           | —                             | —                 |
| Nonfirm Power .....                          | 131,343                     | 2,822,509         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 131,343                     | 2,822,509         | 5,498                       | 136,093           | —                             | —                 |
| Garden City City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Kansas City City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 112,885                     | 2,523,984         | —                             | —                 |
| Nonfirm Power .....                          | 223,126                     | 5,472,471         | —                           | —                 | —                             | —                 |
| Other Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 223,126                     | 5,472,471         | 112,885                     | 2,523,984         | —                             | —                 |
| McPherson City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 581,864                     | 13,331,461        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 581,864                     | 13,331,461        | —                           | —                 | —                             | —                 |
| Winfield City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 36,466                      | 1,093,934         | —                           | —                 | 95,838                        | 3,373,409         |
| Nonfirm Power .....                          | —                           | —                 | 5,290                       | 115,057           | —                             | —                 |
| Total Power .....                            | 36,466                      | 1,093,934         | 5,290                       | 115,057           | 95,838                        | 3,373,409         |
| <b>Kentucky</b>                              |                             |                   |                             |                   |                               |                   |
| Bardstown City of                            |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 167,135                     | 5,107,852         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 167,135                     | 5,107,852         | —                           | —                 | —                             | —                 |
| Bowling Green City of/ Jun 30                |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 751,316                     | 32,951,978        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 751,316                     | 32,951,978        | —                             | —                 |
| Frankfort City of/ Jun 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 686,952                     | 21,221,108        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 686,952                     | 21,221,108        | —                           | —                 | —                             | —                 |
| Henderson City Utility Comm/ May 31          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 18,610                      | 394,272           | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | 18,610                      | 394,272           | —                             | —                 |
| Hopkinsville City of/ Jun 30                 |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 453,275                     | 18,503,067        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 453,275                     | 18,503,067        | —                             | —                 |
| Madisonville Municipal Utils/ Jun 30         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 288,121                     | 9,170,780         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 288,121                     | 9,170,780         | —                           | —                 | —                             | —                 |
| Murray City of/ Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 252,447                     | 11,336,862        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 252,447                     | 11,336,862        | —                             | —                 |
| Owensboro City of/ May 31                    |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 33,349                      | 500,561           | —                           | —                 | —                             | —                 |
| Total Power .....                            | 33,349                      | 500,561           | —                           | —                 | —                             | —                 |
| Paducah City of/ Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 585,889                     | 26,140,425        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 585,889                     | 26,140,425        | —                             | —                 |
| <b>Louisiana</b>                             |                             |                   |                             |                   |                               |                   |
| Alexandria City of/ Apr 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 35,694                      | 776,939           | —                             | —                 |
| Nonfirm Power .....                          | 311,624                     | 6,982,303         | —                           | —                 | 371,106                       | 14,686,597        |
| Total Power .....                            | 311,624                     | 6,982,303         | 35,694                      | 776,939           | 371,106                       | 14,686,597        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Iowa</b>                                  |                             |                   |                             |                   |                             |                   |
| Cedar Falls City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 1                           | 64                | 113,513                     | 1,227,672         |
| Total Power .....                            | —                           | —                 | 1                           | 64                | 113,513                     | 1,227,672         |
| Muscatine City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 3,836                       | 50,394            | 3,200                       | 40,541            | 48,575                      | 682,425           |
| Total Power .....                            | 3,836                       | 50,394            | 3,200                       | 40,541            | 48,575                      | 682,425           |
| Pella City of/Dec 31                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | 840,000           | —                           | 840,000           |
| Nonfirm Power .....                          | —                           | —                 | 68,914                      | 1,064,727         | 91,885                      | 1,559,476         |
| Total Power .....                            | —                           | —                 | 68,914                      | 1,904,727         | 91,885                      | 2,399,476         |
| <b>Kansas</b>                                |                             |                   |                             |                   |                             |                   |
| Chanute City of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 210,455                     | 7,457,991         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 210,455                     | 7,457,991         |
| Coffeyville City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 5,498                       | 136,093           |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 131,343                     | 2,822,509         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 136,841                     | 2,958,602         |
| Garden City City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 184,821                     | 9,589,023         | —                           | —                 | 184,821                     | 9,589,023         |
| Total Power .....                            | 184,821                     | 9,589,023         | —                           | —                 | 184,821                     | 9,589,023         |
| Kansas City City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 112,885                     | 2,523,984         |
| Nonfirm Power .....                          | —                           | —                 | 37,926                      | 732,736           | 261,052                     | 6,205,207         |
| Other Power .....                            | —                           | —                 | 1,154                       | —                 | 1,154                       | —                 |
| Total Power .....                            | —                           | —                 | 39,080                      | 732,736           | 375,091                     | 8,729,191         |
| McPherson City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 581,864                     | 13,331,461        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 581,864                     | 13,331,461        |
| Winfield City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 132,304                     | 4,467,343         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 5,290                       | 115,057           |
| Total Power .....                            | —                           | —                 | —                           | —                 | 137,594                     | 4,582,400         |
| <b>Kentucky</b>                              |                             |                   |                             |                   |                             |                   |
| Bardstown City of                            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 167,135                     | 5,107,852         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 167,135                     | 5,107,852         |
| Bowling Green City of/ Jun 30                |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 751,316                     | 32,951,978        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 751,316                     | 32,951,978        |
| Frankfort City of/ Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 686,952                     | 21,221,108        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 686,952                     | 21,221,108        |
| Henderson City Utility Comm/ May 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 18,610                      | 394,272           |
| Nonfirm Power .....                          | 9,886                       | 293,644           | —                           | —                 | 9,886                       | 293,644           |
| Total Power .....                            | 9,886                       | 293,644           | —                           | —                 | 28,496                      | 687,916           |
| Hopkinsville City of/ Jun 30                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 453,275                     | 18,503,067        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 453,275                     | 18,503,067        |
| Madisonville Municipal Utils/ Jun 30         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 288,121                     | 9,170,780         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 288,121                     | 9,170,780         |
| Murray City of/ Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 252,447                     | 11,336,862        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 252,447                     | 11,336,862        |
| Owensboro City of/ May 31                    |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 33,349                      | 500,561           |
| Total Power .....                            | —                           | —                 | —                           | —                 | 33,349                      | 500,561           |
| Paducah City of/ Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 585,889                     | 26,140,425        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 585,889                     | 26,140,425        |
| <b>Louisiana</b>                             |                             |                   |                             |                   |                             |                   |
| Alexandria City of/ Apr 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 35,694                      | 776,939           |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 682,730                     | 21,668,900        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 718,424                     | 22,445,839        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Louisiana</b>                             |                             |                   |                             |                   |                               |                   |
| Lafayette City of/Oct 31                     |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 172,515                     | 4,814,545         | 31,278                      | 644,779           | 1,359,281                     | 41,103,976        |
| Total Power .....                            | 172,515                     | 4,814,545         | 31,278                      | 644,779           | 1,359,281                     | 41,103,976        |
| Morgan City City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 174,465                       | 7,556,735         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 174,465                       | 7,556,735         |
| Natchitoches City of/May 31                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Ruston City of/Sep 30                        |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | 103,607                     | 3,108,210         | —                             | —                 |
| Total Power .....                            | —                           | —                 | 103,607                     | 3,108,210         | —                             | —                 |
| Terrebonne Parish Consol Gov t/Dec 31        |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 176,405                       | 3,543,147         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 176,405                       | 3,543,147         |
| <b>Maryland</b>                              |                             |                   |                             |                   |                               |                   |
| Hagerstown City of/Jun 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| <b>Massachusetts</b>                         |                             |                   |                             |                   |                               |                   |
| Braintree Town of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 166,600                     | 7,823,685         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 166,600                     | 7,823,685         | —                           | —                 | —                             | —                 |
| Chicopee City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 42,289                      | 1,767,362         | —                           | —                 | 39,127                        | 542,516           |
| Nonfirm Power .....                          | 336                         | 7,920             | —                           | —                 | —                             | —                 |
| Total Power .....                            | 42,625                      | 1,775,282         | —                           | —                 | 39,127                        | 542,516           |
| Concord Town of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 154,073                     | 8,677,014         | —                           | —                 | 11,366                        | 224,084           |
| Total Power .....                            | 154,073                     | 8,677,014         | —                           | —                 | 11,366                        | 224,084           |
| Danvers Town of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 19,659                      | 747,000           | —                           | —                 | 201,486                       | 18,590,000        |
| Total Power .....                            | 19,659                      | 747,000           | —                           | —                 | 201,486                       | 18,590,000        |
| Hingham City of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 20,654                      | 1,024,072         | —                           | —                 | 79,452                        | 7,451,976         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 2,555                         | 64,698            |
| Total Power .....                            | 20,654                      | 1,024,072         | —                           | —                 | 82,007                        | 7,516,674         |
| Holyoke City of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 160,103                     | 8,564,854         | —                           | —                 | 93,891                        | 7,509,238         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 160,103                     | 8,564,854         | —                           | —                 | 93,891                        | 7,509,238         |
| Hudson Town of/Dec 31                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 131,072                     | 4,438,175         | —                           | —                 | 176,114                       | 17,446,436        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 131,072                     | 4,438,175         | —                           | —                 | 176,114                       | 17,446,436        |
| Littleton Town of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 11,967                      | 720,132           | —                           | —                 | 27,293                        | 2,028,187         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 11,967                      | 720,132           | —                           | —                 | 27,293                        | 2,028,187         |
| Mansfield Town of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 129,035                       | 12,704,286        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 129,035                       | 12,704,286        |
| Middleborough Town of/Dec 31                 |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 79,725                      | 4,407,188         | —                           | —                 | 106,151                       | 6,654,098         |
| Total Power .....                            | 79,725                      | 4,407,188         | —                           | —                 | 106,151                       | 6,654,098         |
| North Attleborough Town of/Dec 31            |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 77,167                      | 5,699,916         | —                           | —                 | 36,710                        | 3,338,980         |
| Nonfirm Power .....                          | —                           | 1,130             | —                           | —                 | 11,592                        | 294,140           |
| Total Power .....                            | 77,167                      | 5,701,046         | —                           | —                 | 48,302                        | 3,633,120         |
| Norwood City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 301,569                     | 20,190,600        | —                           | —                 | 17,360                        | 250,255           |
| Total Power .....                            | 301,569                     | 20,190,600        | —                           | —                 | 17,360                        | 250,255           |
| Peabody City of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 46,757                      | 2,244,618         | —                           | —                 | 203,251                       | 19,339,323        |
| Nonfirm Power .....                          | 74                          | 7,892             | —                           | —                 | —                             | —                 |
| Total Power .....                            | 46,831                      | 2,252,510         | —                           | —                 | 203,251                       | 19,339,323        |
| Reading Town of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 287,323                     | 15,984,334        | —                           | —                 | 163,593                       | 17,328,584        |
| Nonfirm Power .....                          | 17                          | 1,914             | —                           | —                 | —                             | —                 |
| Total Power .....                            | 287,340                     | 15,986,248        | —                           | —                 | 163,593                       | 17,328,584        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Louisiana</b>                             |                             |                   |                             |                   |                             |                   |
| Lafayette City of/Oct 31                     |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 29,024                      | 549,487           | —                           | —                 | 1,592,098                   | 47,112,787        |
| Total Power .....                            | 29,024                      | 549,487           | —                           | —                 | 1,592,098                   | 47,112,787        |
| Morgan City City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 174,465                     | 7,556,735         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 174,465                     | 7,556,735         |
| Natchitoches City of/May 31                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 229,256                     | 7,854,000         | 229,256                     | 7,854,000         |
| Total Power .....                            | —                           | —                 | 229,256                     | 7,854,000         | 229,256                     | 7,854,000         |
| Ruston City of/Sep 30                        |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 103,607                     | 3,108,210         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 103,607                     | 3,108,210         |
| Terrebonne Parish Consol Gov t/Dec 31        |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 176,405                     | 3,543,147         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 176,405                     | 3,543,147         |
| <b>Maryland</b>                              |                             |                   |                             |                   |                             |                   |
| Hagerstown City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 366,113                     | 14,922,449        | 366,113                     | 14,922,449        |
| Total Power .....                            | —                           | —                 | 366,113                     | 14,922,449        | 366,113                     | 14,922,449        |
| <b>Massachusetts</b>                         |                             |                   |                             |                   |                             |                   |
| Braintree Town of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 5,472                       | 833,092           | 172,072                     | 8,656,777         |
| Total Power .....                            | —                           | —                 | 5,472                       | 833,092           | 172,072                     | 8,656,777         |
| Chicopee City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 20,826                      | 7,768,505         | 102,242                     | 10,078,383        |
| Nonfirm Power .....                          | —                           | —                 | 265,989                     | 6,884,524         | 266,325                     | 6,892,444         |
| Total Power .....                            | —                           | —                 | 286,815                     | 14,653,029        | 368,567                     | 16,970,827        |
| Concord Town of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 165,439                     | 8,901,098         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 165,439                     | 8,901,098         |
| Danvers Town of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 94,810                      | 3,650,000         | 315,955                     | 22,987,000        |
| Total Power .....                            | —                           | —                 | 94,810                      | 3,650,000         | 315,955                     | 22,987,000        |
| Hingham City of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 3,936                       | 453,082           | 104,042                     | 8,929,130         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 2,555                       | 64,698            |
| Total Power .....                            | —                           | —                 | 3,936                       | 453,082           | 106,597                     | 8,993,828         |
| Holyoke City of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 27,950                      | 1,154,769         | 281,944                     | 17,228,861        |
| Nonfirm Power .....                          | —                           | —                 | 2,109                       | 136,635           | 2,109                       | 136,635           |
| Total Power .....                            | —                           | —                 | 30,059                      | 1,291,404         | 284,053                     | 17,365,496        |
| Hudson Town of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 9,702                       | 977,668           | 316,888                     | 22,862,279        |
| Nonfirm Power .....                          | —                           | —                 | 420                         | 11,115            | 420                         | 11,115            |
| Total Power .....                            | —                           | —                 | 10,122                      | 988,783           | 317,308                     | 22,873,394        |
| Littleton Town of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 70,422                      | 3,734,560         | 109,682                     | 6,482,879         |
| Nonfirm Power .....                          | —                           | —                 | 55,247                      | 3,997,086         | 55,247                      | 3,997,086         |
| Total Power .....                            | —                           | —                 | 125,669                     | 7,731,646         | 164,929                     | 10,479,965        |
| Mansfield Town of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 129,035                     | 12,704,286        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 129,035                     | 12,704,286        |
| Middleborough Town of/Dec 31                 |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | 917,008           | 185,876                     | 11,978,294        |
| Total Power .....                            | —                           | —                 | —                           | 917,008           | 185,876                     | 11,978,294        |
| North Attleborough Town of/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 10,669                      | 1,369,060         | 124,546                     | 10,407,956        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 11,592                      | 295,270           |
| Total Power .....                            | —                           | —                 | 10,669                      | 1,369,060         | 136,138                     | 10,703,226        |
| Norwood City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 318,929                     | 20,440,855        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 318,929                     | 20,440,855        |
| Peabody City of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 250,008                     | 21,583,941        |
| Nonfirm Power .....                          | —                           | —                 | 15,536                      | 1,208,849         | 15,610                      | 1,216,741         |
| Total Power .....                            | —                           | —                 | 15,536                      | 1,208,849         | 265,618                     | 22,800,682        |
| Reading Town of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 45,974                      | 3,892,433         | 496,890                     | 37,205,351        |
| Nonfirm Power .....                          | —                           | —                 | 130,932                     | 4,405,618         | 130,949                     | 4,407,532         |
| Total Power .....                            | —                           | —                 | 176,906                     | 8,298,051         | 627,839                     | 41,612,883        |

See notes and footnotes at end of table.



**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Massachusetts</b>                         |                             |                   |                             |                   |                               |                   |
| Shrewsbury Town of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 183,660                     | 9,969,170         | —                           | —                 | 42,632                        | 3,704,862         |
| Nonfirm Power .....                          | 24,971                      | 1,075,238         | —                           | —                 | 7,662                         | 137,827           |
| Total Power .....                            | 208,631                     | 11,044,408        | —                           | —                 | 50,294                        | 3,842,689         |
| Taunton City of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 252,332                     | 6,796,988         | —                           | —                 | 41,331                        | 474,490           |
| Total Power .....                            | 252,332                     | 6,796,988         | —                           | —                 | 41,331                        | 474,490           |
| Wakefield Town of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 24,069                      | 1,676,893         | —                           | —                 | 145,225                       | 10,943,310        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 24,069                      | 1,676,893         | —                           | —                 | 145,225                       | 10,943,310        |
| Wellesley Town of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 181,000                     | 11,092,460        | —                           | —                 | 15,000                        | 309,657           |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 181,000                     | 11,092,460        | —                           | —                 | 15,000                        | 309,657           |
| Westfield City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 16,000                      | 4,850,638         | —                           | —                 | 70,000                        | 15,471,374        |
| Nonfirm Power .....                          | 5,000                       | 81,530            | —                           | —                 | —                             | —                 |
| Total Power .....                            | 21,000                      | 4,932,168         | —                           | —                 | 70,000                        | 15,471,374        |
| <b>Michigan</b>                              |                             |                   |                             |                   |                               |                   |
| Bay City City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 315,654                     | 10,600,391        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 315,654                     | 10,600,391        | —                           | —                 | —                             | —                 |
| Coldwater Board of Public Util/Jun 30        |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 185,289                       | 9,593,951         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 185,289                       | 9,593,951         |
| Detroit City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 385,006                     | 1,207,196         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 385,006                     | 1,207,196         | —                           | —                 | —                             | —                 |
| Grand Haven City of/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 55,937                        | 1,247,364         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 55,937                        | 1,247,364         |
| Hillsdale Board of Public Wks/Jun 30         |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 155,356                       | 7,203,564         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 155,356                       | 7,203,564         |
| Holland City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 240,483                     | 6,353,455         | —                           | —                 | 335,534                       | 12,786,821        |
| Total Power .....                            | 240,483                     | 6,353,455         | —                           | —                 | 335,534                       | 12,786,821        |
| Lansing City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,141,206                     | 43,750,289        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 33,668                        | 887,914           |
| Other Power .....                            | —                           | —                 | —                           | —                 | 2,855                         | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,177,729                     | 44,638,203        |
| Marquette City of/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 41,778                      | 634,900           | —                           | —                 | —                             | —                 |
| Total Power .....                            | 41,778                      | 634,900           | —                           | —                 | —                             | —                 |
| Sturgis City of/Sep 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Traverse City City of/Jun 30                 |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 163,203                       | 5,658,279         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 65,150                        | 1,722,692         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 228,353                       | 7,380,971         |
| Wyandotte Municipal Serv Comm/Sep 30         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 77,798                      | 1,648,073         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 77,798                      | 1,648,073         | —                           | —                 | —                             | —                 |
| Zeeland City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 200,718                       | 6,540,175         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 200,718                       | 6,540,175         |
| <b>Minnesota</b>                             |                             |                   |                             |                   |                               |                   |
| Alexandria City of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 113,971                       | 4,301,809         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 113,971                       | 4,301,809         |
| Anoka City of/Dec 31                         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 239,917                       | 8,498,914         |
| Nonfirm Power .....                          | —                           | 40,744            | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | 40,744            | —                           | —                 | 239,917                       | 8,498,914         |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Massachusetts</b>                         |                             |                   |                             |                   |                             |                   |
| Shrewsbury Town of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 226,292                     | 13,674,032        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 32,633                      | 1,213,065         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 258,925                     | 14,887,097        |
| Taunton City of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 261,110                     | 11,320,723        | 554,773                     | 18,592,201        |
| Total Power .....                            | —                           | —                 | 261,110                     | 11,320,723        | 554,773                     | 18,592,201        |
| Wakefield Town of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 169,294                     | 12,620,203        |
| Nonfirm Power .....                          | —                           | —                 | 484                         | 44,227            | 484                         | 44,227            |
| Total Power .....                            | —                           | —                 | 484                         | 44,227            | 169,778                     | 12,664,430        |
| Wellesley Town of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 196,000                     | 11,402,117        |
| Nonfirm Power .....                          | —                           | —                 | 1,000                       | 49,208            | 1,000                       | 49,208            |
| Total Power .....                            | —                           | —                 | 1,000                       | 49,208            | 197,000                     | 11,451,325        |
| Westfield City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 86,000                      | 20,322,012        |
| Nonfirm Power .....                          | —                           | —                 | —                           | 843,857           | 5,000                       | 925,387           |
| Total Power .....                            | —                           | —                 | —                           | 843,857           | 91,000                      | 21,247,399        |
| <b>Michigan</b>                              |                             |                   |                             |                   |                             |                   |
| Bay City City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 315,654                     | 10,600,391        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 315,654                     | 10,600,391        |
| Coldwater Board of Public Util/Jun 30        |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 185,289                     | 9,593,951         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 185,289                     | 9,593,951         |
| Detroit City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 385,006                     | 1,207,196         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 385,006                     | 1,207,196         |
| Grand Haven City of/Jun 30                   |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 55,937                      | 1,247,364         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 55,937                      | 1,247,364         |
| Hillsdale Board of Public Wks/Jun 30         |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 155,356                     | 7,203,564         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 155,356                     | 7,203,564         |
| Holland City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 576,017                     | 19,140,276        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 576,017                     | 19,140,276        |
| Lansing City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,141,206                   | 43,750,289        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 33,668                      | 887,914           |
| Other Power .....                            | —                           | —                 | —                           | —                 | 2,855                       | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,177,729                   | 44,638,203        |
| Marquette City of/Jun 30                     |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 700                         | 9,531             | 42,478                      | 644,431           |
| Total Power .....                            | —                           | —                 | 700                         | 9,531             | 42,478                      | 644,431           |
| Sturgis City of/Sep 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 212,144                     | 7,793,571         | 212,144                     | 7,793,571         |
| Nonfirm Power .....                          | —                           | —                 | 3,149                       | 97,849            | 3,149                       | 97,849            |
| Total Power .....                            | —                           | —                 | 215,293                     | 7,891,420         | 215,293                     | 7,891,420         |
| Traverse City City of/Jun 30                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 163,203                     | 5,658,279         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 65,150                      | 1,722,692         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 228,353                     | 7,380,971         |
| Wyandotte Municipal Serv Comm/Sep 30         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 77,798                      | 1,648,073         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 77,798                      | 1,648,073         |
| Zeeland City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 200,718                     | 6,540,175         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 200,718                     | 6,540,175         |
| <b>Minnesota</b>                             |                             |                   |                             |                   |                             |                   |
| Alexandria City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 113,971                     | 4,301,809         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 113,971                     | 4,301,809         |
| Anoka City of/Dec 31                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 239,917                     | 8,498,914         |
| Nonfirm Power .....                          | —                           | —                 | 9                           | 527               | 9                           | 41,271            |
| Total Power .....                            | —                           | —                 | 9                           | 527               | 239,926                     | 8,540,185         |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Minnesota</b>                             |                             |                   |                             |                   |                               |                   |
| Austin City of/Dec 31                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 276,272                       | 13,573,628        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 276,272                       | 13,573,628        |
| Brainerd Public Utilities/Dec 31             |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 160,337                     | 5,565,996         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 160,337                     | 5,565,996         | —                           | —                 | —                             | —                 |
| Chaska City of/Dec 31                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 200,210                       | 7,032,710         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 200,210                       | 7,032,710         |
| Fairmont Public Utilities Comm/Dec 31        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 147,137                       | 7,609,352         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 147,137                       | 7,609,352         |
| Hutchinson Utilities Comm/Dec 31             |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 45,263                      | 685,483           | 117                         | 2,369             | 547                           | 10,906            |
| Total Power .....                            | 45,263                      | 685,483           | 117                         | 2,369             | 547                           | 10,906            |
| Marshall City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 133,104                     | 1,704,005         | 242,761                       | 8,229,126         |
| Total Power .....                            | —                           | —                 | 133,104                     | 1,704,005         | 242,761                       | 8,229,126         |
| Moorhead City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 244,611                     | 3,440,569         | —                             | —                 |
| Total Power .....                            | —                           | —                 | 244,611                     | 3,440,569         | —                             | —                 |
| New Ulm Public Utilities Comm/Dec 31         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 146,006                     | 3,060,421         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 146,006                     | 3,060,421         | —                           | —                 | —                             | —                 |
| Owatonna City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 306,970                       | 14,594,552        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 306,970                       | 14,594,552        |
| Rochester Public Utilities/Dec 31            |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 919,403                       | 45,073,340        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 560                           | 7,599             |
| Total Power .....                            | —                           | —                 | —                           | —                 | 919,963                       | 45,080,939        |
| Shakopee Public Utilities Comm/Dec 31        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 155,696                       | 5,910,034         |
| Nonfirm Power .....                          | —                           | 168,736           | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | 168,736           | —                           | —                 | 155,696                       | 5,910,034         |
| Willmar Municipal Utils Comm/Dec 31          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 32,112                      | 440,907           | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | 32,112                      | 440,907           | —                             | —                 |
| Worthington City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 62,609                      | 821,104           | 125,350                       | 4,809,558         |
| Total Power .....                            | —                           | —                 | 62,609                      | 821,104           | 125,350                       | 4,809,558         |
| <b>Mississippi</b>                           |                             |                   |                             |                   |                               |                   |
| Clarksdale City of/Sep 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Columbus City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 501,365                     | 21,959,503        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 501,365                     | 21,959,503        | —                             | —                 |
| Greenwood Utilities Comm/Sep 30              |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Holly Springs City of/Jun 30                 |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Municipal Energy Agency of MS/Sep 30         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 36,720                      | 953,582           | 43,650                      | 985,680           | 5,132                         | 502,352           |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 36,720                      | 953,582           | 43,650                      | 985,680           | 5,132                         | 502,352           |
| New Albany City of/Jun 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 258,644                     | 11,835,867        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 258,644                     | 11,835,867        | —                             | —                 |
| Starkville City of/Jun 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 367,251                     | 15,794,924        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 367,251                     | 15,794,924        | —                             | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Minnesota</b>                             |                             |                   |                             |                   |                             |                   |
| Austin City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 276,272                     | 13,573,628        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 276,272                     | 13,573,628        |
| Brainerd Public Utilities/Dec 31             |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 160,337                     | 5,565,996         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 160,337                     | 5,565,996         |
| Chaska City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 200,210                     | 7,032,710         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 200,210                     | 7,032,710         |
| Fairmont Public Utilities Comm/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 147,137                     | 7,609,352         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 147,137                     | 7,609,352         |
| Hutchinson Utilities Comm/Dec 31             |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 8,806                       | 631,880           | —                           | —                 | 8,806                       | 631,880           |
| Nonfirm Power .....                          | 100,017                     | 1,485,020         | 3                           | 65,289            | 145,947                     | 2,249,067         |
| Total Power .....                            | 108,823                     | 2,116,900         | 3                           | 65,289            | 154,753                     | 2,880,947         |
| Marshall City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 375,865                     | 9,933,131         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 375,865                     | 9,933,131         |
| Moorhead City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 244,611                     | 3,440,569         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 244,611                     | 3,440,569         |
| New Ulm Public Utilities Comm/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | 200,000           | —                           | 200,000           |
| Nonfirm Power .....                          | —                           | —                 | 19,500                      | 260,577           | 165,506                     | 3,320,998         |
| Total Power .....                            | —                           | —                 | 19,500                      | 460,577           | 165,506                     | 3,520,998         |
| Owatonna City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 306,970                     | 14,594,552        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 306,970                     | 14,594,552        |
| Rochester Public Utilities/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 919,403                     | 45,073,340        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 560                         | 7,599             |
| Total Power .....                            | —                           | —                 | —                           | —                 | 919,963                     | 45,080,939        |
| Shakopee Public Utilities Comm/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 155,696                     | 5,910,034         |
| Nonfirm Power .....                          | 10,517                      | 498,506           | —                           | —                 | 10,517                      | 667,242           |
| Total Power .....                            | 10,517                      | 498,506           | —                           | —                 | 166,213                     | 6,577,276         |
| Willmar Municipal Utils Comm/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 88,317                      | 3,137,686         | —                           | 48,989            | 120,429                     | 3,627,582         |
| Nonfirm Power .....                          | 79,682                      | 1,417,043         | —                           | —                 | 79,682                      | 1,417,043         |
| Total Power .....                            | 167,999                     | 4,554,729         | —                           | 48,989            | 200,111                     | 5,044,625         |
| Worthington City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 187,959                     | 5,630,662         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 187,959                     | 5,630,662         |
| <b>Mississippi</b>                           |                             |                   |                             |                   |                             |                   |
| Clarksdale City of/Sep 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 197,487                     | 6,047,215         | 197,487                     | 6,047,215         |
| Total Power .....                            | —                           | —                 | 197,487                     | 6,047,215         | 197,487                     | 6,047,215         |
| Columbus City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 501,365                     | 21,959,503        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 501,365                     | 21,959,503        |
| Greenwood Utilities Comm/Sep 30              |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 309,103                     | 8,399,475         | 309,103                     | 8,399,475         |
| Total Power .....                            | —                           | —                 | 309,103                     | 8,399,475         | 309,103                     | 8,399,475         |
| Holly Springs City of/Jun 30                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 225,588                     | 10,015,192        | —                           | —                 | 225,588                     | 10,015,192        |
| Total Power .....                            | 225,588                     | 10,015,192        | —                           | —                 | 225,588                     | 10,015,192        |
| Municipal Energy Agency of MS/Sep 30         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 131,760                     | 4,178,793         | 245,871                     | 8,449,527         | 463,133                     | 15,069,934        |
| Nonfirm Power .....                          | —                           | —                 | 409,369                     | 11,075,953        | 409,369                     | 11,075,953        |
| Total Power .....                            | 131,760                     | 4,178,793         | 655,240                     | 19,525,480        | 872,502                     | 26,145,887        |
| New Albany City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 258,644                     | 11,835,867        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 258,644                     | 11,835,867        |
| Starkville City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 367,251                     | 15,794,924        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 367,251                     | 15,794,924        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Mississippi</b>                           |                             |                   |                             |                   |                               |                   |
| Tupelo City of/Jun 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 688,691                     | 30,725,082        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 688,691                     | 30,725,082        | —                             | —                 |
| <b>Missouri</b>                              |                             |                   |                             |                   |                               |                   |
| Carthage City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 13,512                      | 275,313           | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Other Power .....                            | —                           | —                 | —                           | —                 | 24                            | —                 |
| Total Power .....                            | —                           | —                 | 13,512                      | 275,313           | 24                            | —                 |
| Columbia City of/Sep 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 258,145                     | 8,239,595         | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 258,145                     | 8,239,595         | —                           | —                 | —                             | —                 |
| Hannibal City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 221,328                     | 8,625,499         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 221,328                     | 8,625,499         | —                           | —                 | —                             | —                 |
| Independence City of/Jun 30                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 849,645                     | 20,852,779        | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 14,013                      | 359,580           | —                           | —                 | —                             | —                 |
| Total Power .....                            | 863,658                     | 21,212,359        | —                           | —                 | —                             | —                 |
| Kennett City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 29,539                      | 617,112           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 29,539                      | 617,112           | —                             | —                 |
| Kirkwood City of/Mar 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 193,946                     | 7,310,445         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 193,946                     | 7,310,445         | —                           | —                 | —                             | —                 |
| Lebanon City of/Oct 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Marshall City of/Sep 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 104,006                     | 1,843,014         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 104,006                     | 1,843,014         | —                           | —                 | —                             | —                 |
| Monett City of/Mar 31                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 170,016                     | 5,812,849         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 170,016                     | 5,812,849         | —                           | —                 | —                             | —                 |
| Poplar Bluff City of/Dec 31                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 120,471                     | 2,009,242         | 165,285                       | 4,750,471         |
| Total Power .....                            | —                           | —                 | 120,471                     | 2,009,242         | 165,285                       | 4,750,471         |
| Rolla City of/Sep 30                         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 263,592                     | 9,953,778         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 263,592                     | 9,953,778         | —                           | —                 | —                             | —                 |
| Sikeston City of/May 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 174,414                     | 2,807,201         | —                             | —                 |
| Nonfirm Power .....                          | 18,382                      | 259,017           | 2,282                       | 46,371            | —                             | —                 |
| Total Power .....                            | 18,382                      | 259,017           | 176,696                     | 2,853,572         | —                             | —                 |
| Springfield City of/Sep 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 60,000                      | 1,706,000         | 398,460                       | 10,210,000        |
| Nonfirm Power .....                          | —                           | —                 | 46,788                      | 245,000           | 300                           | 5,000             |
| Total Power .....                            | —                           | —                 | 106,788                     | 1,951,000         | 398,760                       | 10,215,000        |
| West Plains City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 16,750                      | 652,032           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 16,750                      | 652,032           | —                             | —                 |
| <b>Nebraska</b>                              |                             |                   |                             |                   |                               |                   |
| Beatrice City of/Jul 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 181,868                       | 6,855,099         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 181,868                       | 6,855,099         |
| Fremont City of/Jul 31                       |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | 30,471                      | 596,715           | 73,563                        | 1,017,719         |
| Total Power .....                            | —                           | —                 | 30,471                      | 596,715           | 73,563                        | 1,017,719         |
| Grand Island City of/Jul 31                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 41,831                      | 584,322           | —                             | —                 |
| Nonfirm Power .....                          | 516                         | 13,668            | —                           | —                 | 88,094                        | 1,434,360         |
| Total Power .....                            | 516                         | 13,668            | 41,831                      | 584,322           | 88,094                        | 1,434,360         |
| Hastings City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | 49,152                      | 904,852           | 18,135                        | 284,476           |
| Total Power .....                            | —                           | —                 | 49,152                      | 904,852           | 18,135                        | 284,476           |
| Lincoln Electric System/Dec 31               |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 132,040                     | 3,900,092         | 1,725,780                     | 42,753,350        |
| Nonfirm Power .....                          | 69,999                      | 834,171           | 40,037                      | 618,127           | 2,920                         | 42,311            |
| Total Power .....                            | 69,999                      | 834,171           | 172,077                     | 4,518,219         | 1,728,700                     | 42,795,661        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Mississippi</b>                           |                             |                   |                             |                   |                             |                   |
| Tupelo City of/Jun 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 688,691                     | 30,725,082        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 688,691                     | 30,725,082        |
| <b>Missouri</b>                              |                             |                   |                             |                   |                             |                   |
| Carthage City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 211,577                     | 6,790,300         | 225,089                     | 7,065,613         |
| Nonfirm Power .....                          | —                           | —                 | 805                         | 19,915            | 805                         | 19,915            |
| Other Power .....                            | 4,329                       | —                 | 92                          | —                 | 4,445                       | —                 |
| Total Power .....                            | 4,329                       | —                 | 212,474                     | 6,810,215         | 230,339                     | 7,085,528         |
| Columbia City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 511,099                     | 20,135,701        | 769,244                     | 28,375,296        |
| Nonfirm Power .....                          | 30,799                      | 569,103           | 2,186                       | 157,655           | 32,985                      | 726,758           |
| Total Power .....                            | 30,799                      | 569,103           | 513,285                     | 20,293,356        | 802,229                     | 29,102,054        |
| Hannibal City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 221,328                     | 8,625,499         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 221,328                     | 8,625,499         |
| Independence City of/Jun 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 849,645                     | 20,852,779        |
| Nonfirm Power .....                          | 1,045                       | 34,410            | —                           | —                 | 15,058                      | 393,990           |
| Total Power .....                            | 1,045                       | 34,410            | —                           | —                 | 864,703                     | 21,246,769        |
| Kennett City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 26,368                      | 614,424           | 55,907                      | 1,231,536         |
| Total Power .....                            | —                           | —                 | 26,368                      | 614,424           | 55,907                      | 1,231,536         |
| Kirkwood City of/Mar 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 193,946                     | 7,310,445         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 193,946                     | 7,310,445         |
| Lebanon City of/Oct 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 214,809                     | 7,868,444         | —                           | —                 | 214,809                     | 7,868,444         |
| Total Power .....                            | 214,809                     | 7,868,444         | —                           | —                 | 214,809                     | 7,868,444         |
| Marshall City of/Sep 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 104,006                     | 1,843,014         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 104,006                     | 1,843,014         |
| Monett City of/Mar 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 170,016                     | 5,812,849         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 170,016                     | 5,812,849         |
| Poplar Bluff City of/Dec 31                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 3,714                       | 95,970            | 25,738                      | 536,111           | 315,208                     | 7,391,794         |
| Total Power .....                            | 3,714                       | 95,970            | 25,738                      | 536,111           | 315,208                     | 7,391,794         |
| Rolla City of/Sep 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 263,592                     | 9,953,778         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 263,592                     | 9,953,778         |
| Sikeston City of/May 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 174,414                     | 2,807,201         |
| Nonfirm Power .....                          | 2,303                       | 35,714            | 16,100                      | 307,531           | 39,067                      | 648,633           |
| Total Power .....                            | 2,303                       | 35,714            | 16,100                      | 307,531           | 213,481                     | 3,455,834         |
| Springfield City of/Sep 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 458,460                     | 11,916,000        |
| Nonfirm Power .....                          | 30,221                      | 493,000           | 1,750                       | 49,000            | 79,059                      | 792,000           |
| Total Power .....                            | 30,221                      | 493,000           | 1,750                       | 49,000            | 537,519                     | 12,708,000        |
| West Plains City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 150,746                     | 5,603,769         | 167,496                     | 6,255,801         |
| Total Power .....                            | —                           | —                 | 150,746                     | 5,603,769         | 167,496                     | 6,255,801         |
| <b>Nebraska</b>                              |                             |                   |                             |                   |                             |                   |
| Beatrice City of/Jul 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 181,868                     | 6,855,099         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 181,868                     | 6,855,099         |
| Fremont City of/Jul 31                       |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 104,034                     | 1,614,434         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 104,034                     | 1,614,434         |
| Grand Island City of/Jul 31                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 41,831                      | 584,322           |
| Nonfirm Power .....                          | —                           | —                 | 1,700                       | 81,260            | 90,310                      | 1,529,288         |
| Total Power .....                            | —                           | —                 | 1,700                       | 81,260            | 132,141                     | 2,113,610         |
| Hastings City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 3,595                       | 53,925            | 70,882                      | 1,243,253         |
| Total Power .....                            | —                           | —                 | 3,595                       | 53,925            | 70,882                      | 1,243,253         |
| Lincoln Electric System/Dec 31               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | 101,203           | 1,857,820                   | 46,754,645        |
| Nonfirm Power .....                          | 61,666                      | 1,200,140         | 740                         | 10,305            | 175,362                     | 2,705,054         |
| Total Power .....                            | 61,666                      | 1,200,140         | 740                         | 111,508           | 2,033,182                   | 49,459,699        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Nebraska</b>                              |                             |                   |                             |                   |                               |                   |
| North Platte City of/Jul 31                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 285,004                       | 10,563,831        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 285,004                       | 10,563,831        |
| <b>New Jersey</b>                            |                             |                   |                             |                   |                               |                   |
| Madison Borough/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 126,672                     | 6,892,689         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 126,672                     | 6,892,689         | —                           | —                 | —                             | —                 |
| Vineland City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 17,618                        | 436,585           |
| Total Power .....                            | —                           | —                 | —                           | —                 | 17,618                        | 436,585           |
| <b>New Mexico</b>                            |                             |                   |                             |                   |                               |                   |
| Farmington City of/Jun 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 10,568                      | 731,737           | 85,709                      | 1,758,844         | —                             | —                 |
| Nonfirm Power .....                          | 22,590                      | 337,110           | 21,261                      | 325,490           | —                             | —                 |
| Total Power .....                            | 33,158                      | 1,068,847         | 106,970                     | 2,084,334         | —                             | —                 |
| Gallup City of/Jun 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 172,174                     | 8,337,267         | 18,838                      | 318,485           | —                             | —                 |
| Total Power .....                            | 172,174                     | 8,337,267         | 18,838                      | 318,485           | —                             | —                 |
| Los Alamos County/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 104,095                     | 2,443,047         | —                             | —                 |
| Nonfirm Power .....                          | 34,187                      | 596,617           | 18,000                      | 243,000           | 1,402                         | 19,511            |
| Total Power .....                            | 34,187                      | 596,617           | 122,095                     | 2,686,047         | 1,402                         | 19,511            |
| <b>New York</b>                              |                             |                   |                             |                   |                               |                   |
| Fairport Village of/May 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 397,573                       | 7,340,587         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 397,573                       | 7,340,587         |
| Freeport Village of Inc/Feb 28               |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 4,743                       | 366,337           | —                           | —                 | 234,657                       | 5,358,340         |
| Total Power .....                            | 4,743                       | 366,337           | —                           | —                 | 234,657                       | 5,358,340         |
| Jamestown City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 448,158                       | 6,137,250         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 448,158                       | 6,137,250         |
| Lake Placid Village Inc/Jul 31               |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 142,492                       | 2,357,092         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 142,492                       | 2,357,092         |
| Massena Town of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 27,492                      | 862,037           | —                           | —                 | 142,659                       | 1,300,452         |
| Nonfirm Power .....                          | —                           | 143,562           | —                           | —                 | —                             | —                 |
| Total Power .....                            | 27,492                      | 1,005,599         | —                           | —                 | 142,659                       | 1,300,452         |
| Plattsburgh City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 542,572                       | 5,691,433         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 542,572                       | 5,691,433         |
| Rockville Centre Village of/May 31           |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 1,215                       | 53,410            | —                           | —                 | 329,330                       | 8,060,580         |
| Total Power .....                            | 1,215                       | 53,410            | —                           | —                 | 329,330                       | 8,060,580         |
| Solvay Village of/May 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 254,878                       | 3,246,600         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 254,878                       | 3,246,600         |
| <b>North Carolina</b>                        |                             |                   |                             |                   |                               |                   |
| Albemarle City of/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Concord City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 462,531                     | 18,800,942        | 5,416                       | 302,888           | —                             | —                 |
| Total Power .....                            | 462,531                     | 18,800,942        | 5,416                       | 302,888           | —                             | —                 |
| Elizabeth City City of/Jun 30                |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,566                       | 107,288           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,566                       | 107,288           | —                             | —                 |
| Fayetteville Public Works Comm/Jun 30        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 1,338,653                   | 56,648,557        | 4,103                       | 217,459           | —                             | —                 |
| Nonfirm Power .....                          | 618,404                     | 18,917,391        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 1,957,057                   | 75,565,948        | 4,103                       | 217,459           | —                             | —                 |
| Forest City Town of/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 148,797                     | 6,251,653         | 1,803                       | 103,347           | —                             | —                 |
| Total Power .....                            | 148,797                     | 6,251,653         | 1,803                       | 103,347           | —                             | —                 |
| Gastonia City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 10,494                      | 590,759           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 10,494                      | 590,759           | —                             | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Nebraska</b>                              |                             |                   |                             |                   |                             |                   |
| North Platte City of/Jul 31                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 285,004                     | 10,563,831        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 285,004                     | 10,563,831        |
| <b>New Jersey</b>                            |                             |                   |                             |                   |                             |                   |
| Madison Borough/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 126,672                     | 6,892,689         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 126,672                     | 6,892,689         |
| Vineland City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 100,863                     | 14,212,708        | 100,863                     | 14,212,708        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 17,618                      | 436,585           |
| Total Power .....                            | —                           | —                 | 100,863                     | 14,212,708        | 118,481                     | 14,649,293        |
| <b>New Mexico</b>                            |                             |                   |                             |                   |                             |                   |
| Farmington City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 96,277                      | 2,490,581         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 43,851                      | 662,600           |
| Total Power .....                            | —                           | —                 | —                           | —                 | 140,128                     | 3,153,181         |
| Gallup City of/Jun 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 191,012                     | 8,655,752         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 191,012                     | 8,655,752         |
| Los Alamos County/Jun 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 61,605                      | 2,117,209         | 165,700                     | 4,560,256         |
| Nonfirm Power .....                          | 301                         | 4,737             | 1,917                       | 24,887            | 55,807                      | 888,752           |
| Total Power .....                            | 301                         | 4,737             | 63,522                      | 2,142,096         | 221,507                     | 5,449,008         |
| <b>New York</b>                              |                             |                   |                             |                   |                             |                   |
| Fairport Village of/May 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 397,573                     | 7,340,587         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 397,573                     | 7,340,587         |
| Freeport Village of Inc/Feb 28               |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 239,400                     | 5,724,677         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 239,400                     | 5,724,677         |
| Jamestown City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 448,158                     | 6,137,250         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 448,158                     | 6,137,250         |
| Lake Placid Village Inc/Jul 31               |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 142,492                     | 2,357,092         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 142,492                     | 2,357,092         |
| Massena Town of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 170,151                     | 2,162,489         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | 143,562           |
| Total Power .....                            | —                           | —                 | —                           | —                 | 170,151                     | 2,306,051         |
| Plattsburgh City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 542,572                     | 5,691,433         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 542,572                     | 5,691,433         |
| Rockville Centre Village of/May 31           |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 330,545                     | 8,113,990         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 330,545                     | 8,113,990         |
| Solvay Village of/May 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 254,878                     | 3,246,600         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 254,878                     | 3,246,600         |
| <b>North Carolina</b>                        |                             |                   |                             |                   |                             |                   |
| Albemarle City of/Jun 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 284,535                     | 17,129,494        | 284,535                     | 17,129,494        |
| Total Power .....                            | —                           | —                 | 284,535                     | 17,129,494        | 284,535                     | 17,129,494        |
| Concord City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 467,947                     | 19,103,830        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 467,947                     | 19,103,830        |
| Elizabeth City City of/Jun 30                |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 269,015                     | 19,617,288        | 270,581                     | 19,724,576        |
| Total Power .....                            | —                           | —                 | 269,015                     | 19,617,288        | 270,581                     | 19,724,576        |
| Fayetteville Public Works Comm/Jun 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,342,756                   | 56,866,016        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 618,404                     | 18,917,391        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,961,160                   | 75,783,407        |
| Forest City Town of/Jun 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 150,600                     | 6,355,000         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 150,600                     | 6,355,000         |
| Gastonia City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 649,409                     | 35,945,283        | 659,903                     | 36,536,042        |
| Total Power .....                            | —                           | —                 | 649,409                     | 35,945,283        | 659,903                     | 36,536,042        |

See notes and footnotes at end of table.



**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>North Carolina</b>                        |                             |                   |                             |                   |                               |                   |
| Greenville Utilities Comm/June 30            |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 9,000                       | 329,241           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 9,000                       | 329,241           | —                             | —                 |
| High Point Town of/June 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Kinston City of/June 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,113                       | 60,358            | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,113                       | 60,358            | —                             | —                 |
| Laurinburg City of                           |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 309                         | 17,084            | —                             | —                 |
| Total Power .....                            | —                           | —                 | 309                         | 17,084            | —                             | —                 |
| Lexington City of/June 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Lumberton City of/June 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 676                         | 35,718            | —                             | —                 |
| Total Power .....                            | —                           | —                 | 676                         | 35,718            | —                             | —                 |
| Monroe City of/June 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Morganton City of/June 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 22,877                      | 526,885           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 22,877                      | 526,885           | —                             | —                 |
| New Bern City of/June 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 910                         | 48,049            | —                             | —                 |
| Total Power .....                            | —                           | —                 | 910                         | 48,049            | —                             | —                 |
| North Carolina Eastern M P A/Dec 31          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 2,059,797                   | 99,880,000        | —                           | —                 | 199,447                       | 15,148,000        |
| Total Power .....                            | 2,059,797                   | 99,880,000        | —                           | —                 | 199,447                       | 15,148,000        |
| North Carolina Mun Power Agny/Dec 31         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 820,959                     | 59,745,000        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 820,959                     | 59,745,000        | —                           | —                 | —                             | —                 |
| Rocky Mount City of/June 30                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | 101,286           | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | 101,286           | —                             | —                 |
| Shelby City of/June 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 3,872                       | 217,936           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 3,872                       | 217,936           | —                             | —                 |
| Statesville City of/June 30                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 6,378                       | 359,042           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 6,378                       | 359,042           | —                             | —                 |
| Tarboro Town of/June 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Washington City of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 2,042                       | 107,871           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 2,042                       | 107,871           | —                             | —                 |
| Wilson City of/June 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| <b>Ohio</b>                                  |                             |                   |                             |                   |                               |                   |
| American Mun Power-Ohio Inc/Dec 31           |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 3,303,224                   | 105,489,519       | —                           | —                 | 297,263                       | 3,719,491         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 3,303,224                   | 105,489,519       | —                           | —                 | 297,263                       | 3,719,491         |
| Bowling Green City of/Dec 31                 |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Bryan City of/Dec 31                         |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 395,428                     | 12,519,916        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 395,428                     | 12,519,916        | —                           | —                 | —                             | —                 |
| Celina City of/Dec 31                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 161,821                     | 5,285,716         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 161,821                     | 5,285,716         | —                           | —                 | —                             | —                 |
| Cleveland City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 344,132                     | 12,271,579        | —                           | —                 | 210,426                       | 3,995,240         |
| Total Power .....                            | 344,132                     | 12,271,579        | —                           | —                 | 210,426                       | 3,995,240         |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>North Carolina</b>                        |                             |                   |                             |                   |                             |                   |
| Greenville Utilities Comm/June 30            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 1,320,000                   | 91,235,902        | 1,329,000                   | 91,565,143        |
| Total Power .....                            | —                           | —                 | 1,320,000                   | 91,235,902        | 1,329,000                   | 91,565,143        |
| High Point Town of/June 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 914,222                     | 53,801,438        | 914,222                     | 53,801,438        |
| Total Power .....                            | —                           | —                 | 914,222                     | 53,801,438        | 914,222                     | 53,801,438        |
| Kinston City of/June 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 461,542                     | 28,604,920        | 462,655                     | 28,665,278        |
| Total Power .....                            | —                           | —                 | 461,542                     | 28,604,920        | 462,655                     | 28,665,278        |
| Laurinburg City of                           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 123,913                     | 8,717,221         | 124,222                     | 8,734,305         |
| Total Power .....                            | —                           | —                 | 123,913                     | 8,717,221         | 124,222                     | 8,734,305         |
| Lexington City of/June 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 482,171                     | 29,123,157        | 482,171                     | 29,123,157        |
| Total Power .....                            | —                           | —                 | 482,171                     | 29,123,157        | 482,171                     | 29,123,157        |
| Lumberton City of/June 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 279,244                     | 19,706,057        | 279,920                     | 19,741,775        |
| Total Power .....                            | —                           | —                 | 279,244                     | 19,706,057        | 279,920                     | 19,741,775        |
| Monroe City of/June 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 479,054                     | 22,954,776        | 479,054                     | 22,954,776        |
| Total Power .....                            | —                           | —                 | 479,054                     | 22,954,776        | 479,054                     | 22,954,776        |
| Morganton City of/June 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 290,939                     | 15,729,383        | 313,816                     | 16,256,268        |
| Total Power .....                            | —                           | —                 | 290,939                     | 15,729,383        | 313,816                     | 16,256,268        |
| New Bern City of/June 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 410,269                     | 29,668,580        | 411,179                     | 29,716,629        |
| Total Power .....                            | —                           | —                 | 410,269                     | 29,668,580        | 411,179                     | 29,716,629        |
| North Carolina Eastern M P A/Dec 31          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 2,259,244                   | 115,028,000       |
| Total Power .....                            | —                           | —                 | —                           | —                 | 2,259,244                   | 115,028,000       |
| North Carolina Mun Power Agny/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 820,959                     | 59,745,000        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 820,959                     | 59,745,000        |
| Rocky Mount City of/June 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 828,273                     | 54,685,279        | 828,273                     | 54,786,565        |
| Total Power .....                            | —                           | —                 | 828,273                     | 54,685,279        | 828,273                     | 54,786,565        |
| Shelby City of/June 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 181,149                     | 10,188,260        | 185,021                     | 10,406,196        |
| Total Power .....                            | —                           | —                 | 181,149                     | 10,188,260        | 185,021                     | 10,406,196        |
| Statesville City of/June 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 401,976                     | 22,380,190        | 408,354                     | 22,739,232        |
| Total Power .....                            | —                           | —                 | 401,976                     | 22,380,190        | 408,354                     | 22,739,232        |
| Tarboro Town of/June 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 258,566                     | 18,257,473        | 258,566                     | 18,257,473        |
| Total Power .....                            | —                           | —                 | 258,566                     | 18,257,473        | 258,566                     | 18,257,473        |
| Washington City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 264,818                     | 17,413,127        | 266,860                     | 17,520,998        |
| Total Power .....                            | —                           | —                 | 264,818                     | 17,413,127        | 266,860                     | 17,520,998        |
| Wilson City of/June 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 1,141,298                   | 73,918,676        | 1,141,298                   | 73,918,676        |
| Total Power .....                            | —                           | —                 | 1,141,298                   | 73,918,676        | 1,141,298                   | 73,918,676        |
| <b>Ohio</b>                                  |                             |                   |                             |                   |                             |                   |
| American Mun Power-Ohio Inc/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 850,259                     | 20,888,900        | 4,450,746                   | 130,097,910       |
| Nonfirm Power .....                          | —                           | —                 | 10,979                      | 181,719           | 10,979                      | 181,719           |
| Total Power .....                            | —                           | —                 | 861,238                     | 21,070,619        | 4,461,725                   | 130,279,629       |
| Bowling Green City of/Dec 31                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 340,425                     | 15,131,399        | 340,425                     | 15,131,399        |
| Total Power .....                            | —                           | —                 | 340,425                     | 15,131,399        | 340,425                     | 15,131,399        |
| Bryan City of/Dec 31                         |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 80,708                      | 1,814,456         | 476,136                     | 14,334,372        |
| Total Power .....                            | —                           | —                 | 80,708                      | 1,814,456         | 476,136                     | 14,334,372        |
| Celina City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 8,399                       | 171,248           | 170,220                     | 5,456,964         |
| Total Power .....                            | —                           | —                 | 8,399                       | 171,248           | 170,220                     | 5,456,964         |
| Cleveland City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 255,238                     | 7,124,274         | 673,679                     | 21,212,229        | 1,483,475                   | 44,603,322        |
| Total Power .....                            | 255,238                     | 7,124,274         | 673,679                     | 21,212,229        | 1,483,475                   | 44,603,322        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other Government  |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Ohio</b>                                  |                             |                   |                             |                   |                             |                   |
| Columbus City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | 88                          | 33,194            | —                           | —                 | —                           | —                 |
| Total Power .....                            | 88                          | 33,194            | —                           | —                 | —                           | —                 |
| Cuyahoga Falls City of/Dec 31                |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Dover City of/Dec 31                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 53,713                      | 1,645,941         | —                           | —                 | 12,516                      | 239,429           |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | 53,713                      | 1,645,941         | —                           | —                 | 12,516                      | 239,429           |
| Hamilton City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 73,078                      | 2,278,963         | —                           | —                 | 37,874                      | 750,528           |
| Nonfirm Power .....                          | 960                         | 17,120            | —                           | —                 | —                           | —                 |
| Total Power .....                            | 74,038                      | 2,296,083         | —                           | —                 | 37,874                      | 750,528           |
| Napoleon City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Niles City of/Dec 31                         |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Orrville City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Painesville City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Piqua City of/Dec 31                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 16,344                      | 381,504           |
| Total Power .....                            | —                           | —                 | —                           | —                 | 16,344                      | 381,504           |
| St Marys City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Wadsworth City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                           | —                 |
| Wapakoneta City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 168,350                     | 4,949,843         | —                           | —                 | —                           | —                 |
| Total Power .....                            | 168,350                     | 4,949,843         | —                           | —                 | —                           | —                 |
| Westerville City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 11,217                      | 235,288           |
| Total Power .....                            | —                           | —                 | —                           | —                 | 11,217                      | 235,288           |
| <b>Oklahoma</b>                              |                             |                   |                             |                   |                             |                   |
| Altus City of/Jun 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 179,278                     | 7,490,344         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 179,278                     | 7,490,344         |
| Claremore City of/Jun 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 240,420                     | 8,145,417         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 240,420                     | 8,145,417         |
| Duncan City of/Jun 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 59,019                      | 1,431,701         | 87,802                      | 3,842,220         |
| Total Power .....                            | —                           | —                 | 59,019                      | 1,431,701         | 87,802                      | 3,842,220         |
| Edmond City of/Jun 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 562,002                     | 23,682,507        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 562,002                     | 23,682,507        |
| Miami City of/Jun 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 156,561                     | 5,338,115         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 156,561                     | 5,338,115         |
| Ponca City City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 336,448                     | 13,909,159        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 336,448                     | 13,909,159        |
| Stillwater Utilities Authority/Jun 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 398,180                     | 12,458,880        |
| Other Power .....                            | —                           | —                 | —                           | —                 | 533,000                     | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | 931,180                     | 12,458,880        |
| <b>Oregon</b>                                |                             |                   |                             |                   |                             |                   |
| Ashland City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 153,058                     | 4,523,887         | —                           | —                 | —                           | —                 |
| Total Power .....                            | 153,058                     | 4,523,887         | —                           | —                 | —                           | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Ohio</b>                                  |                             |                   |                             |                   |                             |                   |
| Columbus City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 736,394                     | 19,818,437        | 736,394                     | 19,818,437        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 88                          | 33,194            |
| Total Power .....                            | —                           | —                 | 736,394                     | 19,818,437        | 736,482                     | 19,851,631        |
| Cuyahoga Falls City of/Dec 31                |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 358,004                     | 14,651,782        | 358,004                     | 14,651,782        |
| Total Power .....                            | —                           | —                 | 358,004                     | 14,651,782        | 358,004                     | 14,651,782        |
| Dover City of/Dec 31                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 68,071                      | 2,661,981         | 134,300                     | 4,547,351         |
| Nonfirm Power .....                          | —                           | —                 | 1,008                       | 21,662            | 1,008                       | 21,662            |
| Total Power .....                            | —                           | —                 | 69,079                      | 2,683,643         | 135,308                     | 4,569,013         |
| Hamilton City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 154,903                     | 3,161,525         | —                           | 1,426,820         | 265,855                     | 7,617,836         |
| Nonfirm Power .....                          | —                           | —                 | 13,800                      | 212,342           | 14,760                      | 229,462           |
| Total Power .....                            | 154,903                     | 3,161,525         | 13,800                      | 1,639,162         | 280,615                     | 7,847,298         |
| Napoleon City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 159,069                     | 7,242,951         | 159,069                     | 7,242,951         |
| Total Power .....                            | —                           | —                 | 159,069                     | 7,242,951         | 159,069                     | 7,242,951         |
| Niles City of/Dec 31                         |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 291,867                     | 12,140,000        | 291,867                     | 12,140,000        |
| Total Power .....                            | —                           | —                 | 291,867                     | 12,140,000        | 291,867                     | 12,140,000        |
| Orrville City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 33,058                      | 1,278,698         | 33,058                      | 1,278,698         |
| Total Power .....                            | —                           | —                 | 33,058                      | 1,278,698         | 33,058                      | 1,278,698         |
| Painesville City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 69,541                      | 1,954,311         | 69,541                      | 1,954,311         |
| Total Power .....                            | —                           | —                 | 69,541                      | 1,954,311         | 69,541                      | 1,954,311         |
| Piqua City of/Dec 31                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 245,418                     | 6,056,066         | 261,762                     | 6,437,570         |
| Total Power .....                            | —                           | —                 | 245,418                     | 6,056,066         | 261,762                     | 6,437,570         |
| St Marys City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 146,170                     | 3,667,429         | 146,170                     | 3,667,429         |
| Nonfirm Power .....                          | —                           | —                 | —                           | 2,493             | —                           | 2,493             |
| Total Power .....                            | —                           | —                 | 146,170                     | 3,669,922         | 146,170                     | 3,669,922         |
| Wadsworth City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 247,061                     | 9,653,243         | 247,061                     | 9,653,243         |
| Total Power .....                            | —                           | —                 | 247,061                     | 9,653,243         | 247,061                     | 9,653,243         |
| Wapakoneta City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 6,413                       | 145,286           | 174,763                     | 5,095,129         |
| Total Power .....                            | —                           | —                 | 6,413                       | 145,286           | 174,763                     | 5,095,129         |
| Westerville City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 381,450                     | 11,531,722        | 392,667                     | 11,767,010        |
| Total Power .....                            | —                           | —                 | 381,450                     | 11,531,722        | 392,667                     | 11,767,010        |
| <b>Oklahoma</b>                              |                             |                   |                             |                   |                             |                   |
| Altus City of/Jun 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 179,278                     | 7,490,344         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 179,278                     | 7,490,344         |
| Claremore City of/Jun 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 240,420                     | 8,145,417         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 240,420                     | 8,145,417         |
| Duncan City of/Jun 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 146,821                     | 5,273,921         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 146,821                     | 5,273,921         |
| Edmond City of/Jun 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 562,002                     | 23,682,507        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 562,002                     | 23,682,507        |
| Miami City of/Jun 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 156,561                     | 5,338,115         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 156,561                     | 5,338,115         |
| Ponca City City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 336,448                     | 13,909,159        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 336,448                     | 13,909,159        |
| Stillwater Utilities Authority/Jun 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 398,180                     | 12,458,880        |
| Other Power .....                            | —                           | —                 | —                           | —                 | 533,000                     | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | 931,180                     | 12,458,880        |
| <b>Oregon</b>                                |                             |                   |                             |                   |                             |                   |
| Ashland City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 153,058                     | 4,523,887         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 153,058                     | 4,523,887         |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Oregon</b>                                |                             |                   |                             |                   |                               |                   |
| Eugene City of/Dec 31                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 480,163                     | 10,986,969        | 672,926                     | 20,236,746        | —                             | —                 |
| Nonfirm Power .....                          | 174,813                     | 3,121,478         | —                           | —                 | 242,888                       | 1,326,536         |
| Other Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 654,976                     | 14,108,447        | 672,926                     | 20,236,746        | 242,888                       | 1,326,536         |
| Forest Grove City of/June 30                 |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 182,763                     | 4,671,340         | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 41,100                        | 1,527,871         |
| Total Power .....                            | —                           | —                 | 182,763                     | 4,671,340         | 41,100                        | 1,527,871         |
| McMinnville City of/June 30                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 635,880                     | 18,905,360        | 41,367                        | 306,332           |
| Total Power .....                            | —                           | —                 | 635,880                     | 18,905,360        | 41,367                        | 306,332           |
| Springfield City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 258,850                     | 5,728,114         | 349,117                     | 11,305,521        | —                             | —                 |
| Nonfirm Power .....                          | 167,194                     | 2,127,436         | 65,639                      | 613,460           | 15,879                        | 133,962           |
| Total Power .....                            | 426,044                     | 7,855,550         | 414,756                     | 11,918,981        | 15,879                        | 133,962           |
| <b>Pennsylvania</b>                          |                             |                   |                             |                   |                               |                   |
| Chambersburg Borough of/Dec 31               |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Ephrata Borough of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 128,774                     | 4,792,387         | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 128,774                     | 4,792,387         | —                           | —                 | —                             | —                 |
| Lansdale Borough of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 126,673                     | 4,565,824         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 126,673                     | 4,565,824         | —                           | —                 | —                             | —                 |
| <b>South Carolina</b>                        |                             |                   |                             |                   |                               |                   |
| Camden City of/June 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 175,311                     | 8,558,315         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 175,311                     | 8,558,315         | —                           | —                 | —                             | —                 |
| Easley Combined Utility System/Mar 31        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 19,511                      | 470,709           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 19,511                      | 470,709           | —                             | —                 |
| Gaffney City of/Mar 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 15,821                      | 381,677           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 15,821                      | 381,677           | —                             | —                 |
| Greenwood Commissioners-Pub Wk/Dec 31        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 23,277                      | 606,000           | —                             | —                 |
| Nonfirm Power .....                          | 236,715                     | 10,518,000        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 236,715                     | 10,518,000        | 23,277                      | 606,000           | —                             | —                 |
| Greer Comm of Public Works/Dec 31            |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 19,087                      | 496,576           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 19,087                      | 496,576           | —                             | —                 |
| Newberry City of/June 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | 2,093                       | 121,198           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 2,093                       | 121,198           | —                             | —                 |
| Orangeburg City of/Sep 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 784,639                     | 29,767,701        | 25,631                      | 813,135           | —                             | —                 |
| Total Power .....                            | 784,639                     | 29,767,701        | 25,631                      | 813,135           | —                             | —                 |
| Piedmont Municipal Power Agny/Dec 31         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 1,033,921                   | 23,108,000        | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 1,033,921                   | 23,108,000        | —                           | —                 | —                             | —                 |
| Rock Hill City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 38,610                      | 1,004,520         | —                             | —                 |
| Total Power .....                            | —                           | —                 | 38,610                      | 1,004,520         | —                             | —                 |
| Seneca City of/June 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 144,485                     | 6,527,242         | 1,766                       | 99,432            | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 144,485                     | 6,527,242         | 1,766                       | 99,432            | —                             | —                 |
| <b>South Dakota</b>                          |                             |                   |                             |                   |                               |                   |
| Brookings City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 104,596                     | 1,498,145         | 98,864                        | 3,916,489         |
| Total Power .....                            | —                           | —                 | 104,596                     | 1,498,145         | 98,864                        | 3,916,489         |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Oregon</b>                                |                             |                   |                             |                   |                             |                   |
| Eugene City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 77,599                      | 1,581,401         | 1,230,688                   | 32,805,116        |
| Nonfirm Power .....                          | —                           | —                 | 331,949                     | 3,373,382         | 749,650                     | 7,821,396         |
| Other Power .....                            | —                           | —                 | 1,400                       | —                 | 1,400                       | —                 |
| Total Power .....                            | —                           | —                 | 410,948                     | 4,954,783         | 1,981,738                   | 40,626,512        |
| Forest Grove City of/June 30                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 182,763                     | 4,671,340         |
| Nonfirm Power .....                          | —                           | —                 | 6,713                       | 787,372           | 47,813                      | 2,315,243         |
| Total Power .....                            | —                           | —                 | 6,713                       | 787,372           | 230,576                     | 6,986,583         |
| McMinnville City of/June 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 8,560                       | 25,187            | 685,807                     | 19,236,879        |
| Total Power .....                            | —                           | —                 | 8,560                       | 25,187            | 685,807                     | 19,236,879        |
| Springfield City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 10,448                      | 36,315            | 618,415                     | 17,069,950        |
| Nonfirm Power .....                          | —                           | —                 | 27,827                      | 312,294           | 276,539                     | 3,187,152         |
| Total Power .....                            | —                           | —                 | 38,275                      | 348,609           | 894,954                     | 20,257,102        |
| <b>Pennsylvania</b>                          |                             |                   |                             |                   |                             |                   |
| Chambersburg Borough of/Dec 31               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 260,092                     | 10,246,507        | 260,092                     | 10,246,507        |
| Total Power .....                            | —                           | —                 | 260,092                     | 10,246,507        | 260,092                     | 10,246,507        |
| Ephrata Borough of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 128,774                     | 4,792,387         |
| Nonfirm Power .....                          | 6,585                       | 39,671            | —                           | —                 | 6,585                       | 39,671            |
| Total Power .....                            | 6,585                       | 39,671            | —                           | —                 | 135,359                     | 4,832,058         |
| Lansdale Borough of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 126,673                     | 4,565,824         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 126,673                     | 4,565,824         |
| <b>South Carolina</b>                        |                             |                   |                             |                   |                             |                   |
| Camden City of/June 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 175,311                     | 8,558,315         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 175,311                     | 8,558,315         |
| Easley Combined Utility System/Mar 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 215,383                     | 11,199,474        | 234,894                     | 11,670,183        |
| Total Power .....                            | —                           | —                 | 215,383                     | 11,199,474        | 234,894                     | 11,670,183        |
| Gaffney City of/Mar 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 179,797                     | 8,259,964         | 195,618                     | 8,641,641         |
| Total Power .....                            | —                           | —                 | 179,797                     | 8,259,964         | 195,618                     | 8,641,641         |
| Greenwood Commissioners-Pub Wk/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 23,277                      | 606,000           |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 236,715                     | 10,518,000        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 259,992                     | 11,124,000        |
| Greer Comm of Public Works/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 170,397                     | 9,497,721         | 189,484                     | 9,994,297         |
| Total Power .....                            | —                           | —                 | 170,397                     | 9,497,721         | 189,484                     | 9,994,297         |
| Newberry City of/June 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 149,537                     | 8,283,124         | 149,537                     | 8,283,124         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 2,093                       | 121,198           |
| Total Power .....                            | —                           | —                 | 149,537                     | 8,283,124         | 151,630                     | 8,404,322         |
| Orangeburg City of/Sep 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 810,270                     | 30,580,836        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 810,270                     | 30,580,836        |
| Piedmont Municipal Power Agny/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 144,304                     | 8,521,000         | 1,178,225                   | 31,629,000        |
| Nonfirm Power .....                          | 738                         | 21,000            | —                           | —                 | 738                         | 21,000            |
| Total Power .....                            | 738                         | 21,000            | 144,304                     | 8,521,000         | 1,178,963                   | 31,650,000        |
| Rock Hill City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 517,607                     | 29,426,400        | 556,217                     | 30,430,920        |
| Total Power .....                            | —                           | —                 | 517,607                     | 29,426,400        | 556,217                     | 30,430,920        |
| Seneca City of/June 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 146,251                     | 6,626,674         |
| Nonfirm Power .....                          | —                           | —                 | 3,594                       | 119,433           | 3,594                       | 119,433           |
| Total Power .....                            | —                           | —                 | 3,594                       | 119,433           | 149,845                     | 6,746,107         |
| <b>South Dakota</b>                          |                             |                   |                             |                   |                             |                   |
| Brookings City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 203,460                     | 5,414,634         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 203,460                     | 5,414,634         |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>South Dakota</b>                          |                             |                   |                             |                   |                               |                   |
| Pierre City of/Dec 31                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 111,463                     | 1,753,456         | 65,460                        | 2,552,742         |
| Total Power .....                            | —                           | —                 | 111,463                     | 1,753,456         | 65,460                        | 2,552,742         |
| Watertown Municipal Utilities/Dec 31         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 127,068                     | 1,842,855         | 134,471                       | 5,191,709         |
| Total Power .....                            | —                           | —                 | 127,068                     | 1,842,855         | 134,471                       | 5,191,709         |
| <b>Tennessee</b>                             |                             |                   |                             |                   |                               |                   |
| Alcoa Utilities/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 510,266                     | 22,454,177        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 510,266                     | 22,454,177        | —                             | —                 |
| Athens Utility Board/Jun 30                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 591,868                     | 22,861,926        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 591,868                     | 22,861,926        | —                             | —                 |
| Benton County/Jun 30                         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 239,459                     | 10,091,363        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 239,459                     | 10,091,363        | —                             | —                 |
| Bolivar City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 244,041                     | 11,035,381        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 244,041                     | 11,035,381        | —                             | —                 |
| Bristol City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 914,989                     | 38,475,266        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 914,989                     | 38,475,266        | —                             | —                 |
| Carroll County/Jun 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 421,687                     | 18,512,630        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 421,687                     | 18,512,630        | —                             | —                 |
| Chattanooga City of/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 6,006,121                   | 251,683,672       | —                             | —                 |
| Total Power .....                            | —                           | —                 | 6,006,121                   | 251,683,672       | —                             | —                 |
| Clarksville City of/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,019,076                   | 44,819,777        | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,019,076                   | 44,819,777        | —                             | —                 |
| Cleveland City of/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 993,123                     | 41,910,937        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 993,123                     | 41,910,937        | —                             | —                 |
| Clinton City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 721,889                     | 31,390,935        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 721,889                     | 31,390,935        | —                             | —                 |
| Columbia City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 551,220                     | 24,552,997        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 551,220                     | 24,552,997        | —                             | —                 |
| Cookeville City of/Jun 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 520,989                     | 23,485,066        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 520,989                     | 23,485,066        | —                             | —                 |
| Covington City of/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 239,006                     | 10,316,384        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 239,006                     | 10,316,384        | —                             | —                 |
| Dickson City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 699,723                     | 30,486,863        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 699,723                     | 30,486,863        | —                             | —                 |
| Dyersburg City of/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 658,158                     | 25,076,321        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 658,158                     | 25,076,321        | —                             | —                 |
| Elizabethton City of/Jun 30                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 546,840                     | 24,152,107        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 546,840                     | 24,152,107        | —                             | —                 |
| Erwin Town of/Jun 30                         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 235,047                     | 9,750,487         | —                             | —                 |
| Total Power .....                            | —                           | —                 | 235,047                     | 9,750,487         | —                             | —                 |
| Fayetteville City of/Jun 30                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 399,606                     | 17,823,568        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 399,606                     | 17,823,568        | —                             | —                 |
| Gallatin City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 528,460                     | 21,402,207        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 528,460                     | 21,402,207        | —                             | —                 |
| Greenville City of/Jun 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,034,527                   | 42,291,799        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,034,527                   | 42,291,799        | —                             | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>South Dakota</b>                          |                             |                   |                             |                   |                             |                   |
| Pierre City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 176,923                     | 4,306,198         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 176,923                     | 4,306,198         |
| Watertown Municipal Utilities/Dec 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 261,539                     | 7,034,564         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 261,539                     | 7,034,564         |
| <b>Tennessee</b>                             |                             |                   |                             |                   |                             |                   |
| Alcoa Utilities/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 510,266                     | 22,454,177        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 510,266                     | 22,454,177        |
| Athens Utility Board/Jun 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 591,868                     | 22,861,926        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 591,868                     | 22,861,926        |
| Benton County/Jun 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 239,459                     | 10,091,363        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 239,459                     | 10,091,363        |
| Bolivar City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 244,041                     | 11,035,381        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 244,041                     | 11,035,381        |
| Bristol City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 914,989                     | 38,475,266        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 914,989                     | 38,475,266        |
| Carroll County/Jun 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 421,687                     | 18,512,630        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 421,687                     | 18,512,630        |
| Chattanooga City of/Jun 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 6,006,121                   | 251,683,672       |
| Total Power .....                            | —                           | —                 | —                           | —                 | 6,006,121                   | 251,683,672       |
| Clarksville City of/Jun 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,019,076                   | 44,819,777        |
| Nonfirm Power .....                          | —                           | —                 | —                           | 55,170            | —                           | 55,170            |
| Total Power .....                            | —                           | —                 | —                           | 55,170            | 1,019,076                   | 44,874,947        |
| Cleveland City of/Jun 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 993,123                     | 41,910,937        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 993,123                     | 41,910,937        |
| Clinton City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 721,889                     | 31,390,935        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 721,889                     | 31,390,935        |
| Columbia City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 551,220                     | 24,552,997        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 551,220                     | 24,552,997        |
| Cookeville City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 520,989                     | 23,485,066        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 520,989                     | 23,485,066        |
| Covington City of/Jun 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 239,006                     | 10,316,384        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 239,006                     | 10,316,384        |
| Dickson City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 699,723                     | 30,486,863        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 699,723                     | 30,486,863        |
| Dyersburg City of/Jun 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 658,158                     | 25,076,321        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 658,158                     | 25,076,321        |
| Elizabethton City of/Jun 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 546,840                     | 24,152,107        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 546,840                     | 24,152,107        |
| Erwin Town of/Jun 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 235,047                     | 9,750,487         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 235,047                     | 9,750,487         |
| Fayetteville City of/Jun 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 399,606                     | 17,823,568        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 399,606                     | 17,823,568        |
| Gallatin City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 528,460                     | 21,402,207        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 528,460                     | 21,402,207        |
| Greenville City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,034,527                   | 42,291,799        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,034,527                   | 42,291,799        |

See notes and footnotes at end of table.



**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Tennessee</b>                             |                             |                   |                             |                   |                               |                   |
| Harriman City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 287,725                     | 11,572,957        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 287,725                     | 11,572,957        | —                             | —                 |
| Humboldt City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 249,241                     | 10,772,123        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 249,241                     | 10,772,123        | —                             | —                 |
| Jackson City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,386,580                   | 57,133,124        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,386,580                   | 57,133,124        | —                             | —                 |
| Johnson City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,791,100                   | 78,695,028        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,791,100                   | 78,695,028        | —                             | —                 |
| Knoxville Utilities Board/Jun 30             |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 5,430,553                   | 230,351,901       | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | 5,430,553                   | 230,351,901       | —                             | —                 |
| Lawrenceburg City of/Jun 30                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 523,421                     | 21,714,305        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 523,421                     | 21,714,305        | —                             | —                 |
| LaFollette City of/Jun 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 403,864                     | 18,159,630        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 403,864                     | 18,159,630        | —                             | —                 |
| Lebanon City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 397,579                     | 17,582,564        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 397,579                     | 17,582,564        | —                             | —                 |
| Lenoir City of/Jun 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,219,208                   | 54,246,091        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,219,208                   | 54,246,091        | —                             | —                 |
| Lewisburg City of/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 303,914                     | 13,034,186        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 303,914                     | 13,034,186        | —                             | —                 |
| Lexington City of/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 437,822                     | 19,354,439        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 437,822                     | 19,354,439        | —                             | —                 |
| Loudon Utilities Board/Jun 30                |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 328,023                     | 13,847,633        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 328,023                     | 13,847,633        | —                             | —                 |
| Maryville Utilities/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 617,923                     | 25,653,682        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 617,923                     | 25,653,682        | —                             | —                 |
| McMinnville Electric System/Jun 30           |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 248,364                     | 10,874,868        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 248,364                     | 10,874,868        | —                             | —                 |
| Memphis City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 13,193,562                  | 574,567,539       | —                             | —                 |
| Total Power .....                            | —                           | —                 | 13,193,562                  | 574,567,539       | —                             | —                 |
| Milan City of/Jun 30                         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 253,333                     | 11,510,171        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 253,333                     | 11,510,171        | —                             | —                 |
| Morristown City of/Jun 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 747,717                     | 31,795,396        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 747,717                     | 31,795,396        | —                             | —                 |
| Murfreesboro City of/Jun 30                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,015,144                   | 44,390,603        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,015,144                   | 44,390,603        | —                             | —                 |
| Nashville Electric Service/Jun 30            |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 11,702,685                  | 499,317,262       | —                             | —                 |
| Total Power .....                            | —                           | —                 | 11,702,685                  | 499,317,262       | —                             | —                 |
| Newport City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 475,028                     | 19,741,350        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 475,028                     | 19,741,350        | —                             | —                 |
| Oak Ridge City of/Jun 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 522,551                     | 22,873,859        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 522,551                     | 22,873,859        | —                             | —                 |
| Paris City of/Jun 30                         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 480,542                     | 20,906,847        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 480,542                     | 20,906,847        | —                             | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Tennessee</b>                             |                             |                   |                             |                   |                             |                   |
| Harriman City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 287,725                     | 11,572,957        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 287,725                     | 11,572,957        |
| Humboldt City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 249,241                     | 10,772,123        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 249,241                     | 10,772,123        |
| Jackson City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,386,580                   | 57,133,124        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,386,580                   | 57,133,124        |
| Johnson City City of/Jun 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,791,100                   | 78,695,028        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,791,100                   | 78,695,028        |
| Knoxville Utilities Board/Jun 30             |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 5,430,553                   | 230,351,901       |
| Nonfirm Power .....                          | —                           | —                 | 18,649                      | 417,380           | 18,649                      | 417,380           |
| Total Power .....                            | —                           | —                 | 18,649                      | 417,380           | 5,449,202                   | 230,769,281       |
| Lawrenceburg City of/Jun 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 523,421                     | 21,714,305        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 523,421                     | 21,714,305        |
| LaFollette City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 403,864                     | 18,159,630        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 403,864                     | 18,159,630        |
| Lebanon City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 397,579                     | 17,582,564        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 397,579                     | 17,582,564        |
| Lenoir City City of/Jun 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,219,208                   | 54,246,091        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,219,208                   | 54,246,091        |
| Lewisburg City of/Jun 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 303,914                     | 13,034,186        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 303,914                     | 13,034,186        |
| Lexington City of/Jun 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 437,822                     | 19,354,439        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 437,822                     | 19,354,439        |
| Loudon Utilities Board/Jun 30                |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 328,023                     | 13,847,633        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 328,023                     | 13,847,633        |
| Maryville Utilities/Jun 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 617,923                     | 25,653,682        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 617,923                     | 25,653,682        |
| McMinnville Electric System/Jun 30           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 248,364                     | 10,874,868        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 248,364                     | 10,874,868        |
| Memphis City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 13,193,562                  | 574,567,539       |
| Total Power .....                            | —                           | —                 | —                           | —                 | 13,193,562                  | 574,567,539       |
| Milan City of/Jun 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 253,333                     | 11,510,171        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 253,333                     | 11,510,171        |
| Morristown City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 747,717                     | 31,795,396        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 747,717                     | 31,795,396        |
| Murfreesboro City of/Jun 30                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 1,015,144                   | 44,390,603        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 1,015,144                   | 44,390,603        |
| Nashville Electric Service/Jun 30            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 11,702,685                  | 499,317,262       |
| Total Power .....                            | —                           | —                 | —                           | —                 | 11,702,685                  | 499,317,262       |
| Newport City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 475,028                     | 19,741,350        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 475,028                     | 19,741,350        |
| Oak Ridge City of/Jun 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 522,551                     | 22,873,859        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 522,551                     | 22,873,859        |
| Paris City of/Jun 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 480,542                     | 20,906,847        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 480,542                     | 20,906,847        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Tennessee</b>                             |                             |                   |                             |                   |                               |                   |
| Pulaski City of/Jun 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 464,469                     | 19,058,330        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 464,469                     | 19,058,330        | —                             | —                 |
| Ripley City of/Jun 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 258,217                     | 11,735,852        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 258,217                     | 11,735,852        | —                             | —                 |
| Rockwood City of/Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 332,030                     | 14,261,964        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 332,030                     | 14,261,964        | —                             | —                 |
| Shelbyville City of/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 352,838                     | 16,010,338        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 352,838                     | 16,010,338        | —                             | —                 |
| Springfield City of/Jun 30                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 241,188                     | 10,468,033        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 241,188                     | 10,468,033        | —                             | —                 |
| Tullahoma Board of Pub Utils/Jun 30          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 296,162                     | 13,272,661        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 296,162                     | 13,272,661        | —                             | —                 |
| Union City City of/Jun 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 380,057                     | 14,404,321        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 380,057                     | 14,404,321        | —                             | —                 |
| Weakley County Mun Elec Sys/Jun 30           |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 519,581                     | 23,083,891        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 519,581                     | 23,083,891        | —                             | —                 |
| <b>Texas</b>                                 |                             |                   |                             |                   |                               |                   |
| Austin City of/Sep 30                        |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 115,488                     | 2,571,258         | —                           | —                 | 40,648                        | 1,817,701         |
| Total Power .....                            | 115,488                     | 2,571,258         | —                           | —                 | 40,648                        | 1,817,701         |
| Brenham City of/Sep 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 286,284                       | 11,141,798        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 286,284                       | 11,141,798        |
| Brownsville Public Utils Board/Sep 30        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 88,431                      | 3,591,559         | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 141,634                     | 3,304,466         | —                           | —                 | 16,641                        | 392,800           |
| Total Power .....                            | 230,065                     | 6,896,025         | —                           | —                 | 16,641                        | 392,800           |
| Bryan City of/Sep 30                         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| College Station City of/Sep 30               |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 418,784                     | 12,392,131        | —                           | —                 | —                             | —                 |
| Total Power .....                            | 418,784                     | 12,392,131        | —                           | —                 | —                             | —                 |
| Denton City of/Sep 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Floresville City of/Dec 31                   |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Garland City of/Sep 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Georgetown City of/Sep 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 218,536                       | 9,307,929         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 218,536                       | 9,307,929         |
| Greenville Electric Util Sys/Sep 30          |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Jasper City of/Sep 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 141,744                       | 10,493,731        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 141,744                       | 10,493,731        |
| Kerrville Public Utility Board/Sep 30        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 408,990                       | 17,575,418        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 408,990                       | 17,575,418        |
| Lubbock City of/Sep 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 376,844                     | 11,567,159        | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 128,801                     | 3,446,007         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 505,645                     | 15,013,166        | —                           | —                 | —                             | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Tennessee</b>                             |                             |                   |                             |                   |                             |                   |
| Pulaski City of/Jun 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 464,469                     | 19,058,330        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 464,469                     | 19,058,330        |
| Ripley City of/Jun 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 258,217                     | 11,735,852        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 258,217                     | 11,735,852        |
| Rockwood City of/Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 332,030                     | 14,261,964        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 332,030                     | 14,261,964        |
| Shelbyville City of/Jun 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 352,838                     | 16,010,338        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 352,838                     | 16,010,338        |
| Springfield City of/Jun 30                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 241,188                     | 10,468,033        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 241,188                     | 10,468,033        |
| Tullahoma Board of Pub Utils/Jun 30          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 296,162                     | 13,272,661        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 296,162                     | 13,272,661        |
| Union City City of/Jun 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 380,057                     | 14,404,321        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 380,057                     | 14,404,321        |
| Weakley County Mun Elec Sys/Jun 30           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 519,581                     | 23,083,891        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 519,581                     | 23,083,891        |
| <b>Texas</b>                                 |                             |                   |                             |                   |                             |                   |
| Austin City of/Sep 30                        |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | 10,219                      | 169,769           | 225,067                     | 9,974,910         | 391,422                     | 14,533,638        |
| Total Power .....                            | 10,219                      | 169,769           | 225,067                     | 9,974,910         | 391,422                     | 14,533,638        |
| Brenham City of/Sep 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 286,284                     | 11,141,798        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 286,284                     | 11,141,798        |
| Brownsville Public Utils Board/Sep 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 88,431                      | 3,591,559         |
| Nonfirm Power .....                          | 380                         | 6,932             | 20,255                      | 460,345           | 178,910                     | 4,164,543         |
| Total Power .....                            | 380                         | 6,932             | 20,255                      | 460,345           | 267,341                     | 7,756,102         |
| Bryan City of/Sep 30                         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 226,722                     | 33,743,135        | 226,722                     | 33,743,135        |
| Nonfirm Power .....                          | —                           | —                 | 670,665                     | 9,905,188         | 670,665                     | 9,905,188         |
| Total Power .....                            | —                           | —                 | 897,387                     | 43,648,323        | 897,387                     | 43,648,323        |
| College Station City of/Sep 30               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 107,014                     | 5,057,886         | 525,798                     | 17,450,017        |
| Total Power .....                            | —                           | —                 | 107,014                     | 5,057,886         | 525,798                     | 17,450,017        |
| Denton City of/Sep 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 762,344                     | 34,384,263        | 762,344                     | 34,384,263        |
| Total Power .....                            | —                           | —                 | 762,344                     | 34,384,263        | 762,344                     | 34,384,263        |
| Floresville City of/Dec 31                   |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 195,364                     | 7,670,969         | 195,364                     | 7,670,969         |
| Total Power .....                            | —                           | —                 | 195,364                     | 7,670,969         | 195,364                     | 7,670,969         |
| Garland City of/Sep 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | 63,936,817        | —                           | 63,936,817        |
| Total Power .....                            | —                           | —                 | —                           | 63,936,817        | —                           | 63,936,817        |
| Georgetown City of/Sep 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 218,536                     | 9,307,929         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 218,536                     | 9,307,929         |
| Greenville Electric Util Sys/Sep 30          |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 238,266                     | 15,003,000        | 238,266                     | 15,003,000        |
| Nonfirm Power .....                          | 184,875                     | 1,377,000         | —                           | —                 | 184,875                     | 1,377,000         |
| Total Power .....                            | 184,875                     | 1,377,000         | 238,266                     | 15,003,000        | 423,141                     | 16,380,000        |
| Jasper City of/Sep 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 141,744                     | 10,493,731        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 141,744                     | 10,493,731        |
| Kerrville Public Utility Board/Sep 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 408,990                     | 17,575,418        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 408,990                     | 17,575,418        |
| Lubbock City of/Sep 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 376,844                     | 11,567,159        |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 128,801                     | 3,446,007         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 505,645                     | 15,013,166        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Texas</b>                                 |                             |                   |                             |                   |                               |                   |
| New Braunfels City of/Jul 31                 |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 867,670                       | 32,988,650        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 867,670                       | 32,988,650        |
| San Antonio Public Service Bd/Jan 31         |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | 44,973            | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 392,812                     | 10,653,102        | —                           | —                 | 5,663                         | 186,139           |
| Total Power .....                            | 392,812                     | 10,698,075        | —                           | —                 | 5,663                         | 186,139           |
| San Marcos City of/Sep 30                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 371,132                       | 15,070,809        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 371,132                       | 15,070,809        |
| Seguin City of/Sep 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 230,417                       | 9,210,046         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 230,417                       | 9,210,046         |
| Texas Municipal Power Agency/Sep 30          |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Weatherford Mun Utility System/Sep 30        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| <b>Utah</b>                                  |                             |                   |                             |                   |                               |                   |
| Bountiful City City of/June 30               |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 136,705                     | 2,490,492         | —                             | —                 |
| Nonfirm Power .....                          | 15,962                      | 448,783           | —                           | —                 | 28,425                        | 1,020,154         |
| Total Power .....                            | 15,962                      | 448,783           | 136,705                     | 2,490,492         | 28,425                        | 1,020,154         |
| Logan City of/June 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 92,826                      | 1,831,636         | 163,407                       | 6,065,523         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 32,841                        | 975,119           |
| Total Power .....                            | —                           | —                 | 92,826                      | 1,831,636         | 196,248                       | 7,040,642         |
| Murray City of/June 30                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 188,397                       | 6,683,851         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 188,397                       | 6,683,851         |
| Provo City Corp/June 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 612,071                       | 24,626,725        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 612,071                       | 24,626,725        |
| St George City of/June 30                    |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 372,171                       | 14,088,892        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 372,171                       | 14,088,892        |
| <b>Vermont</b>                               |                             |                   |                             |                   |                               |                   |
| Burlington City of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 161,543                     | 5,900,814         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 161,543                     | 5,900,814         | —                           | —                 | —                             | —                 |
| <b>Virginia</b>                              |                             |                   |                             |                   |                               |                   |
| Bedford City of/June 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 891                         | 63,425            | —                             | —                 |
| Total Power .....                            | —                           | —                 | 891                         | 63,425            | —                             | —                 |
| Bristo Utilities Board/June 30               |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 593,012                     | 23,129,822        | —                             | —                 |
| Total Power .....                            | —                           | —                 | 593,012                     | 23,129,822        | —                             | —                 |
| Danville City of/June 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 279,450                     | 6,298,406         | 4,157                       | 295,982           | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 279,450                     | 6,298,406         | 4,157                       | 295,982           | —                             | —                 |
| Harrisonburg City of/June 30                 |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 587,289                     | 24,078,790        | 1,939                       | 138,549           | —                             | —                 |
| Total Power .....                            | 587,289                     | 24,078,790        | 1,939                       | 138,549           | —                             | —                 |
| Manassas City of/June 30                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Martinsville City of/June 30                 |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,187                       | 84,566            | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,187                       | 84,566            | —                             | —                 |
| Radford City of/June 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 965                         | 68,710            | —                             | —                 |
| Total Power .....                            | —                           | —                 | 965                         | 68,710            | —                             | —                 |
| Salem City of/June 30                        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 1,633                       | 116,279           | —                             | —                 |
| Total Power .....                            | —                           | —                 | 1,633                       | 116,279           | —                             | —                 |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Texas</b>                                 |                             |                   |                             |                   |                             |                   |
| New Braunfels City of/Jul 31                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 867,670                     | 32,988,650        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 867,670                     | 32,988,650        |
| San Antonio Public Service Bd/Jan 31         |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                           | 44,973            |
| Nonfirm Power .....                          | 16                          | 28,713            | 39,616                      | 1,028,059         | 438,107                     | 11,896,013        |
| Total Power .....                            | 16                          | 28,713            | 39,616                      | 1,028,059         | 438,107                     | 11,940,986        |
| San Marcos City of/Sep 30                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 371,132                     | 15,070,809        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 371,132                     | 15,070,809        |
| Seguin City of/Sep 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 230,417                     | 9,210,046         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 230,417                     | 9,210,046         |
| Texas Municipal Power Agency/Sep 30          |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 101,690                     | 957,000           | 101,690                     | 957,000           |
| Total Power .....                            | —                           | —                 | 101,690                     | 957,000           | 101,690                     | 957,000           |
| Weatherford Mun Utility System/Sep 30        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 49,356                      | 2,905,550         | 203,595                     | 5,045,996         | 252,951                     | 7,951,546         |
| Total Power .....                            | 49,356                      | 2,905,550         | 203,595                     | 5,045,996         | 252,951                     | 7,951,546         |
| <b>Utah</b>                                  |                             |                   |                             |                   |                             |                   |
| Bountiful City City of/June 30               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 136,705                     | 2,490,492         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 44,387                      | 1,468,937         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 181,092                     | 3,959,429         |
| Logan City of/June 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 256,233                     | 7,897,159         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 32,841                      | 975,119           |
| Total Power .....                            | —                           | —                 | —                           | —                 | 289,074                     | 8,872,278         |
| Murray City of/June 30                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 131,451                     | 2,655,661         | 131,451                     | 2,655,661         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 188,397                     | 6,683,851         |
| Total Power .....                            | —                           | —                 | 131,451                     | 2,655,661         | 319,848                     | 9,339,512         |
| Provo City Corp/June 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 612,071                     | 24,626,725        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 612,071                     | 24,626,725        |
| St George City of/June 30                    |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 16,724                      | 313,966           | 388,895                     | 14,402,858        |
| Total Power .....                            | —                           | —                 | 16,724                      | 313,966           | 388,895                     | 14,402,858        |
| <b>Vermont</b>                               |                             |                   |                             |                   |                             |                   |
| Burlington City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 161,543                     | 5,900,814         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 161,543                     | 5,900,814         |
| <b>Virginia</b>                              |                             |                   |                             |                   |                             |                   |
| Bedford City of/June 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | 128,272                     | 5,295,077         | 71,842                      | 1,621,597         | 201,005                     | 6,980,099         |
| Total Power .....                            | 128,272                     | 5,295,077         | 71,842                      | 1,621,597         | 201,005                     | 6,980,099         |
| Bristo Utilities Board/June 30               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 593,012                     | 23,129,822        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 593,012                     | 23,129,822        |
| Danville City of/June 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 632,287                     | 23,259,479        | 915,894                     | 29,853,867        |
| Nonfirm Power .....                          | —                           | 179,862           | —                           | 666,576           | —                           | 846,438           |
| Total Power .....                            | —                           | 179,862           | 632,287                     | 23,926,055        | 915,894                     | 30,700,305        |
| Harrisonburg City of/June 30                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 589,228                     | 24,217,339        |
| Total Power .....                            | —                           | —                 | —                           | —                 | 589,228                     | 24,217,339        |
| Manassas City of/June 30                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 315,417                     | 12,564,891        | 315,417                     | 12,564,891        |
| Total Power .....                            | —                           | —                 | 315,417                     | 12,564,891        | 315,417                     | 12,564,891        |
| Martinsville City of/June 30                 |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 404,640                     | 17,700,891        | 405,827                     | 17,785,457        |
| Total Power .....                            | —                           | —                 | 404,640                     | 17,700,891        | 405,827                     | 17,785,457        |
| Radford City of/June 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 365,431                     | 12,719,997        | 366,396                     | 12,788,707        |
| Total Power .....                            | —                           | —                 | 365,431                     | 12,719,997        | 366,396                     | 12,788,707        |
| Salem City of/June 30                        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 370,403                     | 12,925,632        | 372,036                     | 13,041,911        |
| Total Power .....                            | —                           | —                 | 370,403                     | 12,925,632        | 372,036                     | 13,041,911        |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Washington</b>                            |                             |                   |                             |                   |                               |                   |
| Centralia City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 201,974                     | 5,374,722         | —                             | —                 |
| Total Power .....                            | —                           | —                 | 201,974                     | 5,374,722         | —                             | —                 |
| Ellensburg City of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 184,000                     | 5,251,658         | —                             | —                 |
| Total Power .....                            | —                           | —                 | 184,000                     | 5,251,658         | —                             | —                 |
| Port Angeles City of/Dec 31                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 619,142                     | 16,408,594        | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | 619,142                     | 16,408,594        | —                             | —                 |
| Richland City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 660,131                     | 18,675,242        | —                             | —                 |
| Nonfirm Power .....                          | 13,350                      | 197,395           | —                           | —                 | —                             | —                 |
| Total Power .....                            | 13,350                      | 197,395           | 660,131                     | 18,675,242        | —                             | —                 |
| Seattle City of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | 528,318                     | 22,294,356        | —                             | —                 |
| Nonfirm Power .....                          | —                           | 156,000           | 229,734                     | 8,584,493         | 505,350                       | 3,016,499         |
| Total Power .....                            | —                           | 156,000           | 758,052                     | 30,878,849        | 505,350                       | 3,016,499         |
| Tacoma City of/Dec 31                        |                             |                   |                             |                   |                               |                   |
| Nonfirm Power .....                          | 136,284                     | 1,917,425         | 1,642,851                   | 41,109,389        | 429,399                       | 2,224,941         |
| Total Power .....                            | 136,284                     | 1,917,425         | 1,642,851                   | 41,109,389        | 429,399                       | 2,224,941         |
| <b>Wisconsin</b>                             |                             |                   |                             |                   |                               |                   |
| Badger Power Marketing Auth/Dec 31           |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 284,000                     | 9,452,600         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 284,000                     | 9,452,600         | —                           | —                 | —                             | —                 |
| Jefferson City of/Dec 31                     |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Kaukauna City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Manitowoc Public Utilities/Dec 31            |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 114,235                     | 2,929,032         | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 205,589                     | 4,022,594         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 319,824                     | 6,951,626         | —                           | —                 | —                             | —                 |
| Marshfield City of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 334,229                     | 8,904,173         | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | 334,229                     | 8,904,173         | —                           | —                 | —                             | —                 |
| Menasha City of/Dec 31                       |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| New London Electric&Water Util/Dec 31        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Oconomowoc City of/Dec 31                    |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Plymouth City of/Dec 31                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 175,723                     | 5,586,298         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 175,723                     | 5,586,298         | —                           | —                 | —                             | —                 |
| Reedsburg Utility Comm/Dec 31                |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 191,150                     | 6,241,548         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 191,150                     | 6,241,548         | —                           | —                 | —                             | —                 |
| Shawano Municipal Utilities/Dec31            |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Sheboygan Falls City of/Dec 31               |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 213,254                     | 6,370,269         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 213,254                     | 6,370,269         | —                           | —                 | —                             | —                 |
| Sturgeon Bay City of/Dec 31                  |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Sun Prairie Water & Light Comm/Dec 31        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | —                             | —                 |
| Total Power .....                            | —                           | —                 | —                           | —                 | —                             | —                 |
| Wisconsin Public Power Inc Sys/Dec 31        |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 1,766,335                   | 57,794,350        | —                           | —                 | —                             | —                 |
| Nonfirm Power .....                          | 576,725                     | 8,256,879         | 4,215                       | 78,091            | 6,493                         | 75,882            |
| Total Power .....                            | 2,343,060                   | 66,051,229        | 4,215                       | 78,091            | 6,493                         | 75,882            |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Washington</b>                            |                             |                   |                             |                   |                             |                   |
| Centralia City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 201,974                     | 5,374,722         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 201,974                     | 5,374,722         |
| Ellensburg City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 184,000                     | 5,251,658         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 184,000                     | 5,251,658         |
| Port Angeles City of/Dec 31                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 10,919                      | 37,961            | 630,061                     | 16,446,555        |
| Nonfirm Power .....                          | —                           | —                 | 17,580                      | 408,454           | 17,580                      | 408,454           |
| Total Power .....                            | —                           | —                 | 28,499                      | 446,415           | 647,641                     | 16,855,009        |
| Richland City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 660,131                     | 18,675,242        |
| Nonfirm Power .....                          | —                           | —                 | 27,490                      | 182,116           | 40,840                      | 379,511           |
| Total Power .....                            | —                           | —                 | 27,490                      | 182,116           | 700,971                     | 19,054,753        |
| Seattle City of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 528,318                     | 22,294,356        |
| Nonfirm Power .....                          | —                           | —                 | 1,086,399                   | 39,745,121        | 1,821,483                   | 51,502,113        |
| Total Power .....                            | —                           | —                 | 1,086,399                   | 39,745,121        | 2,349,801                   | 73,796,469        |
| Tacoma City of/Dec 31                        |                             |                   |                             |                   |                             |                   |
| Nonfirm Power .....                          | —                           | —                 | 600,990                     | 4,300,751         | 2,809,524                   | 49,552,506        |
| Total Power .....                            | —                           | —                 | 600,990                     | 4,300,751         | 2,809,524                   | 49,552,506        |
| <b>Wisconsin</b>                             |                             |                   |                             |                   |                             |                   |
| Badger Power Marketing Auth/Dec 31           |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 284,000                     | 9,452,600         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 284,000                     | 9,452,600         |
| Jefferson City of/Dec 31                     |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 154,175                     | 5,026,778         | 154,175                     | 5,026,778         |
| Total Power .....                            | —                           | —                 | 154,175                     | 5,026,778         | 154,175                     | 5,026,778         |
| Kaukauna City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 596,690                     | 17,508,330        | 596,690                     | 17,508,330        |
| Total Power .....                            | —                           | —                 | 596,690                     | 17,508,330        | 596,690                     | 17,508,330        |
| Manitowoc Public Utilities/Dec 31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 114,235                     | 2,929,032         |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 205,589                     | 4,022,594         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 319,824                     | 6,951,626         |
| Marshfield City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 334,229                     | 8,904,173         |
| Nonfirm Power .....                          | —                           | —                 | 3,802                       | 38,419            | 3,802                       | 38,419            |
| Total Power .....                            | —                           | —                 | 3,802                       | 38,419            | 338,031                     | 8,942,592         |
| Menasha City of/Dec 31                       |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 685,000                     | 17,235,798        | 685,000                     | 17,235,798        |
| Total Power .....                            | —                           | —                 | 685,000                     | 17,235,798        | 685,000                     | 17,235,798        |
| New London Electric&Water Util/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 172,252                     | 5,886,602         | 172,252                     | 5,886,602         |
| Total Power .....                            | —                           | —                 | 172,252                     | 5,886,602         | 172,252                     | 5,886,602         |
| Oconomowoc City of/Dec 31                    |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 178,403                     | 5,928,222         | 178,403                     | 5,928,222         |
| Total Power .....                            | —                           | —                 | 178,403                     | 5,928,222         | 178,403                     | 5,928,222         |
| Plymouth City of/Dec 31                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 175,723                     | 5,586,298         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 175,723                     | 5,586,298         |
| Reedsburg Utility Comm/Dec 31                |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 191,150                     | 6,241,548         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 191,150                     | 6,241,548         |
| Shawano Municipal Utilities/Dec31            |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 204,912                     | 7,336,638         | 204,912                     | 7,336,638         |
| Total Power .....                            | —                           | —                 | 204,912                     | 7,336,638         | 204,912                     | 7,336,638         |
| Sheboygan Falls City of/Dec 31               |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 213,254                     | 6,370,269         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 213,254                     | 6,370,269         |
| Sturgeon Bay City of/Dec 31                  |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 134,468                     | 4,511,248         | 134,468                     | 4,511,248         |
| Total Power .....                            | —                           | —                 | 134,468                     | 4,511,248         | 134,468                     | 4,511,248         |
| Sun Prairie Water & Light Comm/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 170,959                     | 5,849,206         | 170,959                     | 5,849,206         |
| Total Power .....                            | —                           | —                 | 170,959                     | 5,849,206         | 170,959                     | 5,849,206         |
| Wisconsin Public Power Inc Sys/Dec 31        |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | 1,953                       | 3,149,126         | 1,768,288                   | 60,943,476        |
| Nonfirm Power .....                          | 75,636                      | 797,783           | 223,534                     | 3,160,945         | 886,603                     | 12,369,580        |
| Total Power .....                            | 75,636                      | 797,783           | 225,487                     | 6,310,071         | 2,654,891                   | 73,313,056        |

See notes and footnotes at end of table.



**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                               |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-------------------|
|  | Investor-Owned              |                   | Federal                     |                   | State and Other<br>Government |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh)   | Cost<br>(dollars) |
| <b>Wisconsin</b>                             |                             |                   |                             |                   |                               |                   |
| Wisconsin Rapids W W & L Comm/Dec<br>31      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 75,741                      | 2,377,178         | —                           | —                 | —                             | —                 |
| Total Power .....                            | 75,741                      | 2,377,178         | —                           | —                 | —                             | —                 |
| <b>Wyoming</b>                               |                             |                   |                             |                   |                               |                   |
| Gillette City of Jun 30                      |                             |                   |                             |                   |                               |                   |
| Firm Power .....                             | 175,501                     | 8,460,760         | 5,497                       | 85,924            | —                             | —                 |
| Nonfirm Power .....                          | —                           | —                 | —                           | —                 | 8,803                         | 272,885           |
| Total Power .....                            | 175,501                     | 8,460,760         | 5,497                       | 85,924            | 8,803                         | 272,885           |

See notes and footnotes at end of table.

**Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Source of Electricity       |                   |                             |                   |                             |                   |
|--|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|  | Cooperative                 |                   | Other <sup>1</sup>          |                   | Total                       |                   |
|  | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) |
| <b>Wisconsin</b>                             |                             |                   |                             |                   |                             |                   |
| Wisconsin Rapids W W & L Comm/Dec<br>31      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 75,741                      | 2,377,178         |
| Total Power .....                            | —                           | —                 | —                           | —                 | 75,741                      | 2,377,178         |
| <b>Wyoming</b>                               |                             |                   |                             |                   |                             |                   |
| Gillette City of Jun 30                      |                             |                   |                             |                   |                             |                   |
| Firm Power .....                             | —                           | —                 | —                           | —                 | 180,998                     | 8,546,684         |
| Nonfirm Power .....                          | —                           | —                 | 469                         | 66,034            | 9,272                       | 338,919           |
| Total Power .....                            | —                           | —                 | 469                         | 66,034            | 190,270                     | 8,885,603         |

<sup>1</sup> Includes transactions with municipal utilities, power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the municipal utilities are listed in the State in which the municipality is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities," except where footnoted.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity           |                      |                                    |                      |                                    |                      |
|--|------------------------------------|----------------------|------------------------------------|----------------------|------------------------------------|----------------------|
|  | Investor-Owned                     |                      | Federal                            |                      | State and Other Government         |                      |
|  | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Alabama</b>                               |                                    |                      |                                    |                      |                                    |                      |
| Alabama Municipal Elec Auth/Sep 30           |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Sylacauga Utilities Board/Sep 30             |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | 31,180                             | 1,057,426            | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | 31,180                             | 1,057,426            | —                                  | —                    |
| Troy City of                                 |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 258,848                            | 9,165,000            | 19,068                             | 645,000              | —                                  | —                    |
| Total Power .....                            | 258,848                            | 9,165,000            | 19,068                             | 645,000              | —                                  | —                    |
| <b>Alaska</b>                                |                                    |                      |                                    |                      |                                    |                      |
| Anchorage City of/Dec 31                     |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| <b>Arizona</b>                               |                                    |                      |                                    |                      |                                    |                      |
| Mesa City of/Jun 30                          |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| <b>Arkansas</b>                              |                                    |                      |                                    |                      |                                    |                      |
| Jonesboro City of/Dec 31                     |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 15,135                             | 266,925              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 15,135                             | 266,925              | —                                  | —                    | —                                  | —                    |
| Paragould Light & Water Comm/Dec 31          |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| <b>California</b>                            |                                    |                      |                                    |                      |                                    |                      |
| Anaheim City of/Jun 30                       |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 353,454                            | 5,276,896            | —                                  | —                    | 572                                | 4,862                |
| Total Power .....                            | 353,454                            | 5,276,896            | —                                  | —                    | 572                                | 4,862                |
| Azusa City of/Jun 30                         |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 143,381                            | 3,369,455            | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 143,381                            | 3,369,455            | —                                  | —                    | —                                  | —                    |
| Burbank City of/Jun 30                       |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 620                                | 10,200               | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 620                                | 10,200               | —                                  | —                    | —                                  | —                    |
| Colton City of/Jun 30                        |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 151,702                            | 2,914,945            | —                                  | —                    | 6,199                              | 58,773               |
| Total Power .....                            | 151,702                            | 2,914,945            | —                                  | —                    | 6,199                              | 58,773               |
| Glendale City of/Jun 30                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 10,800                             | 665,000              | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 335                                | 6,000                | —                                  | —                    | 1,840                              | 18,000               |
| Total Power .....                            | 11,135                             | 671,000              | —                                  | —                    | 1,840                              | 18,000               |
| Los Angeles City of/Jun 30                   |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 592,680                            | 10,083,074           | 8,875                              | 126,381              | 125,695                            | 1,813,456            |
| Total Power .....                            | 592,680                            | 10,083,074           | 8,875                              | 126,381              | 125,695                            | 1,813,456            |
| Metropolitan Water Dist/Jun 30               |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 157,755                            | 6,219,442            | —                                  | —                    | 120,550                            | 4,859,364            |
| Total Power .....                            | 157,755                            | 6,219,442            | —                                  | —                    | 120,550                            | 4,859,364            |
| Pasadena City of/Jun 30                      |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 4,400                              | 45,275               | 140                                | 43,062               | 66                                 | 855                  |
| Total Power .....                            | 4,400                              | 45,275               | 140                                | 43,062               | 66                                 | 855                  |
| Redding City of/Jun 30                       |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 340,166                            | 12,094,625           | 300,924                            | 10,853,756           | 8,137                              | 88,410               |
| Other Power .....                            | 1,955                              | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 342,121                            | 12,094,625           | 300,924                            | 10,853,756           | 8,137                              | 88,410               |
| Riverside City of/Jun 30                     |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 37,330                             | 611,962              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 37,330                             | 611,962              | —                                  | —                    | —                                  | —                    |
| San Francisco City & County of/Jun 30        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 493,481                            | 17,263,293           |
| Nonfirm Power .....                          | 260                                | 1,560                | 6,729                              | 60,473               | 347,753                            | 3,672,769            |
| Total Power .....                            | 260                                | 1,560                | 6,729                              | 60,473               | 841,234                            | 20,936,062           |
| Santa Clara City of/Jun 30                   |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 12,915                             | 45,000               |
| Nonfirm Power .....                          | 55,426                             | 674,113              | 10                                 | 120                  | 232,845                            | 2,692,243            |
| Total Power .....                            | 55,426                             | 674,113              | 10                                 | 120                  | 245,760                            | 2,737,243            |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Cooperative                           |                      | Other <sup>1</sup>                    |                      | Total                                 |                      |
|  | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Alabama</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Alabama Municipal Elec Auth/Sep 30           |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 2,634,724                             | 102,755,624          | 2,634,724                             | 102,755,624          |
| Total Power .....                            | —                                     | —                    | 2,634,724                             | 102,755,624          | 2,634,724                             | 102,755,624          |
| Sylacauga Utilities Board/Sep 30             |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 157,464                               | 5,634,215            | 188,644                               | 6,691,641            |
| Total Power .....                            | —                                     | —                    | 157,464                               | 5,634,215            | 188,644                               | 6,691,641            |
| Troy City of                                 |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 277,916                               | 9,810,000            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 277,916                               | 9,810,000            |
| <b>Alaska</b>                                |                                       |                      |                                       |                      |                                       |                      |
| Anchorage City of/Dec 31                     |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 28,373                                | 723,553              | 12,198                                | 253,633              | 40,571                                | 977,186              |
| Total Power .....                            | 28,373                                | 723,553              | 12,198                                | 253,633              | 40,571                                | 977,186              |
| <b>Arizona</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Mesa City of/Jun 30                          |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 53                                    | 878                  | 53                                    | 878                  |
| Total Power .....                            | —                                     | —                    | 53                                    | 878                  | 53                                    | 878                  |
| <b>Arkansas</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Jonesboro City of/Dec 31                     |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 66,837                                | 1,717,928            | 66,837                                | 1,717,928            |
| Nonfirm Power .....                          | 11,224                                | 214,875              | 702,184                               | 13,228,334           | 728,543                               | 13,710,134           |
| Total Power .....                            | 11,224                                | 214,875              | 769,021                               | 14,946,262           | 795,380                               | 15,428,062           |
| Paragould Light & Water Comm/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 18,800                                | 293,067              | 18,800                                | 293,067              |
| Total Power .....                            | —                                     | —                    | 18,800                                | 293,067              | 18,800                                | 293,067              |
| <b>California</b>                            |                                       |                      |                                       |                      |                                       |                      |
| Anaheim City of/Jun 30                       |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 325                                   | 3,412                | 354,351                               | 5,285,170            |
| Total Power .....                            | —                                     | —                    | 325                                   | 3,412                | 354,351                               | 5,285,170            |
| Azusa City of/Jun 30                         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 143,381                               | 3,369,455            |
| Nonfirm Power .....                          | —                                     | —                    | 34,770                                | 521,550              | 34,770                                | 521,550              |
| Total Power .....                            | —                                     | —                    | 34,770                                | 521,550              | 178,151                               | 3,891,005            |
| Burbank City of/Jun 30                       |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | 243,583              | —                                     | 243,583              |
| Nonfirm Power .....                          | —                                     | —                    | 2,741                                 | 39,470               | 3,361                                 | 49,670               |
| Total Power .....                            | —                                     | —                    | 2,741                                 | 283,053              | 3,361                                 | 293,253              |
| Colton City of/Jun 30                        |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 155                                   | 1,542                | 158,056                               | 2,975,260            |
| Total Power .....                            | —                                     | —                    | 155                                   | 1,542                | 158,056                               | 2,975,260            |
| Glendale City of/Jun 30                      |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 10,800                                | 665,000              |
| Nonfirm Power .....                          | —                                     | —                    | 29,071                                | 368,000              | 31,246                                | 392,000              |
| Total Power .....                            | —                                     | —                    | 29,071                                | 368,000              | 42,046                                | 1,057,000            |
| Los Angeles City of/Jun 30                   |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | 4,429,074            | —                                     | 4,429,074            |
| Nonfirm Power .....                          | 28,955                                | 410,472              | 716,358                               | 3,731,723            | 1,472,563                             | 16,165,106           |
| Total Power .....                            | 28,955                                | 410,472              | 716,358                               | 8,160,797            | 1,472,563                             | 20,594,180           |
| Metropolitan Water Dist/Jun 30               |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 278,305                               | 11,078,806           |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 278,305                               | 11,078,806           |
| Pasadena City of/Jun 30                      |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 39,411                                | 488,597              | 44,017                                | 577,789              |
| Total Power .....                            | —                                     | —                    | 39,411                                | 488,597              | 44,017                                | 577,789              |
| Redding City of/Jun 30                       |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 27                                    | 396                  | 192                                   | 2,747                | 649,446                               | 23,039,934           |
| Other Power .....                            | —                                     | —                    | —                                     | —                    | 1,955                                 | —                    |
| Total Power .....                            | 27                                    | 396                  | 192                                   | 2,747                | 651,401                               | 23,039,934           |
| Riverside City of/Jun 30                     |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 37,330                                | 611,962              |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 37,330                                | 611,962              |
| San Francisco City & County of/Jun 30        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 256,768                               | 7,929,551            | 750,249                               | 25,192,844           |
| Nonfirm Power .....                          | —                                     | —                    | 569,448                               | 11,912,923           | 924,190                               | 15,647,725           |
| Total Power .....                            | —                                     | —                    | 826,216                               | 19,842,474           | 1,674,439                             | 40,840,569           |
| Santa Clara City of/Jun 30                   |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 12,915                                | 45,000               |
| Nonfirm Power .....                          | —                                     | —                    | 15,940                                | 179,433              | 304,221                               | 3,545,909            |
| Total Power .....                            | —                                     | —                    | 15,940                                | 179,433              | 317,136                               | 3,590,909            |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity           |                      |                                    |                      |                                    |                      |
|--|------------------------------------|----------------------|------------------------------------|----------------------|------------------------------------|----------------------|
|  | Investor-Owned                     |                      | Federal                            |                      | State and Other Government         |                      |
|  | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>California</b>                            |                                    |                      |                                    |                      |                                    |                      |
| Turlock Irrigation Dist/Dec 31               |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | 87                   | —                                  | —                    | —                                  | 23,271               |
| Nonfirm Power .....                          | 42,807                             | 601,337              | 165                                | 1,650                | 102,047                            | 1,005,468            |
| Total Power .....                            | 42,807                             | 601,424              | 165                                | 1,650                | 102,047                            | 1,028,739            |
| <b>Colorado</b>                              |                                    |                      |                                    |                      |                                    |                      |
| Colorado Springs City of/Dec 31              |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 22,690                             | 406,564              | 280                                | 3,360                | —                                  | —                    |
| Total Power .....                            | 22,690                             | 406,564              | 280                                | 3,360                | —                                  | —                    |
| <b>Connecticut</b>                           |                                    |                      |                                    |                      |                                    |                      |
| Mun Electric Engy Coop/Dec 31                |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Groton City of/Jun 30                        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 5,728                              | 407,199              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 5,728                              | 407,199              | —                                  | —                    | —                                  | —                    |
| <b>Delaware</b>                              |                                    |                      |                                    |                      |                                    |                      |
| Dover City of/Dec 31                         |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 32,354                             | 1,159,542            | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 32,354                             | 1,159,542            | —                                  | —                    | —                                  | —                    |
| <b>Florida</b>                               |                                    |                      |                                    |                      |                                    |                      |
| Florida Municipal Power Agency/Sep 30        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 230,431                            | 2,702,378            | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 230,431                            | 2,702,378            | —                                  | —                    | —                                  | —                    |
| Fort Pierce Utilities Au/Sep 30              |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 792                                | 21,033               | —                                  | —                    | —                                  | —                    |
| Other Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 792                                | 21,033               | —                                  | —                    | —                                  | —                    |
| Gainesville Regional Utilities/Sep 30        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 67,552                             | 1,700,400            | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 67,552                             | 1,700,400            | —                                  | —                    | —                                  | —                    |
| Homestead City of/Sep 30                     |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 283                                | 14,311               | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 283                                | 14,311               | —                                  | —                    | —                                  | —                    |
| Jacksonville Elec Auth/Sep 30                |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 3,316,801                          | 139,951,855          | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 82,092                             | 2,275,415            | 201                                | 5,046                | 3,410                              | 109,054              |
| Total Power .....                            | 3,398,893                          | 142,227,270          | 201                                | 5,046                | 3,410                              | 109,054              |
| Key West City of/Sep 30                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 216                                | 8,862                | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 216                                | 8,862                | —                                  | —                    | —                                  | —                    |
| Lake Worth City of/Sep 30                    |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 5,471                              | 157,974              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 5,471                              | 157,974              | —                                  | —                    | —                                  | —                    |
| Lakeland City of/Sep 30                      |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 21,434                             | 725,745              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 21,434                             | 725,745              | —                                  | —                    | —                                  | —                    |
| New Smyrna Beach Utils Comm/Sep 30           |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Orlando Utilities Comm/Sep 30                |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 249,830                            | 8,012,461            | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 79,389                             | 2,499,452            | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 329,219                            | 10,511,913           | —                                  | —                    | —                                  | —                    |
| Reedy Creek Improvement Dist/Sep 30          |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 517                                | 15,729               | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 517                                | 15,729               | —                                  | —                    | —                                  | —                    |
| St Cloud City of/Sep 30                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | 600,210              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | 600,210              | —                                  | —                    | —                                  | —                    |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Cooperative                           |                      | Other <sup>1</sup>                    |                      | Total                                 |                      |
|  | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>California</b>                            |                                       |                      |                                       |                      |                                       |                      |
| Turlock Irrigation Dist/Dec 31               |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 14                                    | 294,715              | 14                                    | 318,073              |
| Nonfirm Power .....                          | —                                     | —                    | 28,193                                | 459,678              | 173,212                               | 2,068,133            |
| Total Power .....                            | —                                     | —                    | 28,207                                | 754,393              | 173,226                               | 2,386,206            |
| <b>Colorado</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Colorado Springs City of/Dec 31              |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 150,600                               | 5,140,081            | 150,600                               | 5,140,081            |
| Nonfirm Power .....                          | —                                     | —                    | 3,384                                 | 42,504               | 26,354                                | 452,428              |
| Total Power .....                            | —                                     | —                    | 153,984                               | 5,182,585            | 176,954                               | 5,592,509            |
| <b>Connecticut</b>                           |                                       |                      |                                       |                      |                                       |                      |
| Mun Electric Engy Coop/Dec 31                |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 1,762,860                             | 91,927,396           | 1,762,860                             | 91,927,396           |
| Nonfirm Power .....                          | —                                     | —                    | 379,670                               | 15,200,056           | 379,670                               | 15,200,056           |
| Total Power .....                            | —                                     | —                    | 2,142,530                             | 107,127,452          | 2,142,530                             | 107,127,452          |
| Groton City of/Jun 30                        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 5,728                                 | 407,199              |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 5,728                                 | 407,199              |
| <b>Delaware</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Dover City of/Dec 31                         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 1,404                                 | 64,717               | 33,758                                | 1,224,259            |
| Total Power .....                            | —                                     | —                    | 1,404                                 | 64,717               | 33,758                                | 1,224,259            |
| <b>Florida</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Florida Municipal Power Agency/Sep 30        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 2,883,824                             | 147,929,622          | 2,883,824                             | 147,929,622          |
| Nonfirm Power .....                          | —                                     | —                    | 264,305                               | 20,437,341           | 494,736                               | 23,139,719           |
| Total Power .....                            | —                                     | —                    | 3,148,129                             | 168,366,963          | 3,378,560                             | 171,069,341          |
| Fort Pierce Utilities Au/Sep 30              |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 211                                   | 5,276                | 595                                   | 15,494               | 1,598                                 | 41,803               |
| Other Power .....                            | —                                     | —                    | 1,250                                 | —                    | 1,250                                 | —                    |
| Total Power .....                            | 211                                   | 5,276                | 1,845                                 | 15,494               | 2,848                                 | 41,803               |
| Gainesville Regional Utilities/Sep 30        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 48,555                                | 2,683,048            | 217,359                               | 8,798,066            | 265,914                               | 11,481,114           |
| Nonfirm Power .....                          | 7,801                                 | 224,363              | 44,105                                | 1,413,722            | 119,458                               | 3,338,485            |
| Total Power .....                            | 56,356                                | 2,907,411            | 261,464                               | 10,211,788           | 385,372                               | 14,819,599           |
| Homestead City of/Sep 30                     |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 576                                   | 129,034              | 576                                   | 129,034              |
| Nonfirm Power .....                          | 46                                    | 2,279                | 780                                   | 39,716               | 1,109                                 | 56,306               |
| Total Power .....                            | 46                                    | 2,279                | 1,356                                 | 168,750              | 1,685                                 | 185,340              |
| Jacksonville Elec Auth/Sep 30                |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 5,788                                 | 2,358,041            | —                                     | 308,816              | 3,322,589                             | 142,618,712          |
| Nonfirm Power .....                          | 85,237                                | 2,165,603            | 84,284                                | 2,479,848            | 255,224                               | 7,034,966            |
| Total Power .....                            | 91,025                                | 4,523,644            | 84,284                                | 2,788,664            | 3,577,813                             | 149,653,678          |
| Key West City of/Sep 30                      |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | 432,000              | —                                     | —                    | —                                     | 432,000              |
| Nonfirm Power .....                          | 10                                    | 248                  | 36                                    | 885                  | 262                                   | 9,995                |
| Total Power .....                            | 10                                    | 432,248              | 36                                    | 885                  | 262                                   | 441,995              |
| Lake Worth City of/Sep 30                    |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 608                                   | 709,993              | 608                                   | 709,993              |
| Nonfirm Power .....                          | 715                                   | 21,908               | 1,965                                 | 56,265               | 8,151                                 | 236,147              |
| Total Power .....                            | 715                                   | 21,908               | 2,573                                 | 766,258              | 8,759                                 | 946,140              |
| Lakeland City of/Sep 30                      |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 9,250                                 | 986,336              | 30,684                                | 1,712,081            |
| Total Power .....                            | —                                     | —                    | 9,250                                 | 986,336              | 30,684                                | 1,712,081            |
| New Smyrna Beach Utils Comm/Sep 30           |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 685                                   | 1,889                | 685                                   | 1,889                |
| Total Power .....                            | —                                     | —                    | 685                                   | 1,889                | 685                                   | 1,889                |
| Orlando Utilities Comm/Sep 30                |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 69,261                                | 5,382,464            | 1,449,104                             | 51,367,033           | 1,768,195                             | 64,761,958           |
| Nonfirm Power .....                          | —                                     | —                    | 356,353                               | 9,260,482            | 435,742                               | 11,759,934           |
| Total Power .....                            | 69,261                                | 5,382,464            | 1,805,457                             | 60,627,515           | 2,203,937                             | 76,521,892           |
| Reedy Creek Improvement Dist/Sep 30          |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 1,303                                 | 36,804               | 1,278                                 | 37,701               | 3,098                                 | 90,234               |
| Total Power .....                            | 1,303                                 | 36,804               | 1,278                                 | 37,701               | 3,098                                 | 90,234               |
| St Cloud City of/Sep 30                      |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | —                                     | 600,210              |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | —                                     | 600,210              |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity           |                      |                                    |                      |                                    |                      |
|--|------------------------------------|----------------------|------------------------------------|----------------------|------------------------------------|----------------------|
|  | Investor-Owned                     |                      | Federal                            |                      | State and Other Government         |                      |
|  | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Florida</b>                               |                                    |                      |                                    |                      |                                    |                      |
| Tallahassee City of/Sep 30                   |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 88,041                             | 2,546,238            | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 88,041                             | 2,546,238            | —                                  | —                    | —                                  | —                    |
| Vero Beach City of/Sep 30                    |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 10,511                             | 332,989              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 10,511                             | 332,989              | —                                  | —                    | —                                  | —                    |
| <b>Georgia</b>                               |                                    |                      |                                    |                      |                                    |                      |
| Dalton City of/Nov 30                        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 31,408                             | 292,000              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 31,408                             | 292,000              | —                                  | —                    | —                                  | —                    |
| <b>Idaho</b>                                 |                                    |                      |                                    |                      |                                    |                      |
| Idaho Falls City of/Sep 30                   |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 60,605                             | 2,343,597            | 148,340                            | 5,113,190            | —                                  | —                    |
| Total Power .....                            | 60,605                             | 2,343,597            | 148,340                            | 5,113,190            | —                                  | —                    |
| <b>Illinois</b>                              |                                    |                      |                                    |                      |                                    |                      |
| Illinois Municipal Elec Agency/Apr 30        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Springfield City of/Jun 30                   |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 93,005                             | 1,424,227            | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 93,005                             | 1,424,227            | —                                  | —                    | —                                  | —                    |
| <b>Indiana</b>                               |                                    |                      |                                    |                      |                                    |                      |
| Crawfordsville Elec Lgt&Pwr Co/Dec 31        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 11,090                             | 2,090,749            |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 11,090                             | 2,090,749            |
| <b>Iowa</b>                                  |                                    |                      |                                    |                      |                                    |                      |
| Cedar Falls City of/Dec 31                   |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 4,055                              | 76,327               | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 4,055                              | 76,327               | —                                  | —                    | —                                  | —                    |
| Muscatine City of/Dec 31                     |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 110,080                            | 1,714,784            | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 239,803                            | 3,650,510            | 593                                | 7,847                | 62,527                             | 966,538              |
| Total Power .....                            | 349,883                            | 5,365,294            | 593                                | 7,847                | 62,527                             | 966,538              |
| Pella City of/Dec 31                         |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 22,971                             | 494,750              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 22,971                             | 494,750              | —                                  | —                    | —                                  | —                    |
| <b>Kansas</b>                                |                                    |                      |                                    |                      |                                    |                      |
| Kansas City City of/Dec 31                   |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 10,870                             | 217,894              | —                                  | —                    | 250,005                            | 7,061,095            |
| Total Power .....                            | 10,870                             | 217,894              | —                                  | —                    | 250,005                            | 7,061,095            |
| McPherson City of/Dec 31                     |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 11,924                             | 2,002,456            | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 11,924                             | 2,002,456            | —                                  | —                    | —                                  | —                    |
| Winfield City of/Dec 31                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| <b>Kentucky</b>                              |                                    |                      |                                    |                      |                                    |                      |
| Henderson City Utility Comm/May 31           |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Owensboro City of/May 31                     |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 1,431,089                          | 32,782,386           | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 1,431,089                          | 32,782,386           | —                                  | —                    | —                                  | —                    |
| <b>Louisiana</b>                             |                                    |                      |                                    |                      |                                    |                      |
| Lafayette City of/Oct 31                     |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 123,802                            | 6,077,849            |
| Nonfirm Power .....                          | 11,487                             | 263,554              | —                                  | —                    | 4,023                              | 93,793               |
| Total Power .....                            | 11,487                             | 263,554              | —                                  | —                    | 127,825                            | 6,171,642            |
| Terrebonne Parish Consol Gov 't/Dec 31       |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | 721                                | 45,551               |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 721                                | 45,551               |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Cooperative                           |                      | Other <sup>1</sup>                    |                      | Total                                 |                      |
|  | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Florida</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Tallahassee City of/Sep 30                   |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 9,374                                 | 273,254              | 29,212                                | 862,699              | 126,627                               | 3,682,191            |
| Total Power .....                            | 9,374                                 | 273,254              | 29,212                                | 862,699              | 126,627                               | 3,682,191            |
| Vero Beach City of/Sep 30                    |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 670                                   | 207,502              | 670                                   | 207,502              |
| Nonfirm Power .....                          | 2,446                                 | 79,533               | 79,253                                | 1,344,016            | 92,210                                | 1,756,538            |
| Total Power .....                            | 2,446                                 | 79,533               | 79,923                                | 1,551,518            | 92,880                                | 1,964,040            |
| <b>Georgia</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Dalton City of/Nov 30                        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 31,408                                | 292,000              |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 31,408                                | 292,000              |
| <b>Idaho</b>                                 |                                       |                      |                                       |                      |                                       |                      |
| Idaho Falls City of/Sep 30                   |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 208,945                               | 7,456,787            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 208,945                               | 7,456,787            |
| <b>Illinois</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Illinois Municipal Elec Agency/Apr 30        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 1,528,654                             | 70,660,067           | 1,528,654                             | 70,660,067           |
| Nonfirm Power .....                          | —                                     | —                    | 30,909                                | 901,613              | 30,909                                | 901,613              |
| Total Power .....                            | —                                     | —                    | 1,559,563                             | 71,561,680           | 1,559,563                             | 71,561,680           |
| Springfield City of/Jun 30                   |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 42,158                                | 1,526,734            | 42,158                                | 1,526,734            |
| Nonfirm Power .....                          | —                                     | —                    | 130,986                               | 2,169,234            | 223,991                               | 3,593,461            |
| Total Power .....                            | —                                     | —                    | 173,144                               | 3,695,968            | 266,149                               | 5,120,195            |
| <b>Indiana</b>                               |                                       |                      |                                       |                      |                                       |                      |
| Crawfordsville Elec Lgt&Pwr Co/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 11,090                                | 2,090,749            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 11,090                                | 2,090,749            |
| <b>Iowa</b>                                  |                                       |                      |                                       |                      |                                       |                      |
| Cedar Falls City of/Dec 31                   |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 4,055                                 | 76,327               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 4,055                                 | 76,327               |
| Muscatine City of/Dec 31                     |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 630                                   | 173,925              | 68,914                                | 1,904,727            | 179,624                               | 3,793,436            |
| Nonfirm Power .....                          | 40,819                                | 592,118              | 1,470                                 | 19,900               | 345,212                               | 5,236,913            |
| Total Power .....                            | 41,449                                | 766,043              | 70,384                                | 1,924,627            | 524,836                               | 9,030,349            |
| Pella City of/Dec 31                         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | 840,000              | —                                     | 840,000              |
| Nonfirm Power .....                          | —                                     | —                    | 68,914                                | 1,064,727            | 91,885                                | 1,559,477            |
| Total Power .....                            | —                                     | —                    | 68,914                                | 1,904,727            | 91,885                                | 2,399,477            |
| <b>Kansas</b>                                |                                       |                      |                                       |                      |                                       |                      |
| Kansas City City of/Dec 31                   |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 64                                    | 43,226               | 64                                    | 43,226               |
| Nonfirm Power .....                          | —                                     | —                    | 153,023                               | 4,614,921            | 413,898                               | 11,893,910           |
| Total Power .....                            | —                                     | —                    | 153,087                               | 4,658,147            | 413,962                               | 11,937,136           |
| McPherson City of/Dec 31                     |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 24,110                                | 964,624              | 36,034                                | 2,967,080            |
| Total Power .....                            | —                                     | —                    | 24,110                                | 964,624              | 36,034                                | 2,967,080            |
| Winfield City of/Dec 31                      |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 5,178                                 | 243,099              | 5,178                                 | 243,099              |
| Total Power .....                            | —                                     | —                    | 5,178                                 | 243,099              | 5,178                                 | 243,099              |
| <b>Kentucky</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Henderson City Utility Comm/May 31           |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 1,525,698                             | 15,482,422           | —                                     | —                    | 1,525,698                             | 15,482,422           |
| Total Power .....                            | 1,525,698                             | 15,482,422           | —                                     | —                    | 1,525,698                             | 15,482,422           |
| Owensboro City of/May 31                     |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 1,431,089                             | 32,782,386           |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 1,431,089                             | 32,782,386           |
| <b>Louisiana</b>                             |                                       |                      |                                       |                      |                                       |                      |
| Lafayette City of/Oct 31                     |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 232,481                               | 7,695,719            | 356,283                               | 13,773,568           |
| Nonfirm Power .....                          | —                                     | —                    | 2,259                                 | 66,805               | 17,769                                | 424,152              |
| Total Power .....                            | —                                     | —                    | 234,740                               | 7,762,524            | 374,052                               | 14,197,720           |
| Terrebonne Parish Consol Gov /Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 721                                   | 45,551               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 721                                   | 45,551               |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity           |                      |                                    |                      |                                    |                      |
|--|------------------------------------|----------------------|------------------------------------|----------------------|------------------------------------|----------------------|
|  | Investor-Owned                     |                      | Federal                            |                      | State and Other Government         |                      |
|  | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Massachusetts</b>                         |                                    |                      |                                    |                      |                                    |                      |
| Braintree Town of/Dec 31                     |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 47,530                             | 2,849,986            | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 47,530                             | 2,849,986            | —                                  | —                    | —                                  | —                    |
| Chicopee City of/Dec 31                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Danvers Town of/Dec 31                       |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | 872                                | 28,000               |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 872                                | 28,000               |
| Hingham City of/Dec 31                       |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 4                                  | 4,242                |
| Nonfirm Power .....                          | 168                                | 17,258               | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 168                                | 17,258               | —                                  | —                    | 4                                  | 4,242                |
| Holyoke City of/Dec 31                       |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 1,479                              | 40,050               | —                                  | —                    | 5,193                              | 127,471              |
| Total Power .....                            | 1,479                              | 40,050               | —                                  | —                    | 5,193                              | 127,471              |
| Littleton Town of/Dec 31                     |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | 395                                | 9,537                |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 395                                | 9,537                |
| Mansfield Town of/Dec 31                     |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 396                                | 38,782               |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 396                                | 38,782               |
| North Attleborough Town of/Dec 31            |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 66                                 | 8,869                |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 66                                 | 8,869                |
| Reading Town of/Dec 31                       |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 192                                | 19,167               | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 192                                | 19,167               | —                                  | —                    | —                                  | —                    |
| Taunton City of/Dec 31                       |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 8,293                              | 290,900              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 8,293                              | 290,900              | —                                  | —                    | —                                  | —                    |
| Westfield City of/Dec 31                     |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 6,804                              | 554,029              |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 6,804                              | 554,029              |
| <b>Michigan</b>                              |                                    |                      |                                    |                      |                                    |                      |
| Grand Haven City of/Jun 30                   |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 82,892                             | 1,995,930            |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 82,892                             | 1,995,930            |
| Lansing City of/Jun 30                       |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 266,675                            | 9,270,036            |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 266,675                            | 9,270,036            |
| Marquette City of/Jun 30                     |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 1,790                              | 77,417               | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 1,790                              | 77,417               | —                                  | —                    | —                                  | —                    |
| Traverse City City of/Jun 30                 |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | 3,628                              | 79,933               |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 3,628                              | 79,933               |
| <b>Minnesota</b>                             |                                    |                      |                                    |                      |                                    |                      |
| Austin City of/Dec 31                        |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | 136,404                            | 3,150,466            |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 136,404                            | 3,150,466            |
| Fairmont Public Utilities Comm/Dec 31        |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | 1,018                              | 35,742               |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 1,018                              | 35,742               |
| Hutchinson Utilities Comm/Dec 31             |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 13,919                             | 240,694              | —                                  | —                    | 1,686                              | 25,693               |
| Total Power .....                            | 13,919                             | 240,694              | —                                  | —                    | 1,686                              | 25,693               |
| Rochester Public Utilities/Dec 31            |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 425                                | 4,395,194            |
| Nonfirm Power .....                          | 175                                | 4,550                | —                                  | —                    | 85,066                             | 1,961,524            |
| Total Power .....                            | 175                                | 4,550                | —                                  | —                    | 85,491                             | 6,356,718            |
| Western Minnesota Mun P Agny/Dec 31          |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 1,997,174                          | 42,359,351           |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 1,997,174                          | 42,359,351           |

See notes and footnotes at end of table.



**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Cooperative                           |                      | Other <sup>1</sup>                    |                      | Total                                 |                      |
|  | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Massachusetts</b>                         |                                       |                      |                                       |                      |                                       |                      |
| Braintree Town of/Dec 31                     |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 7,491                                 | 680,807              | 55,021                                | 3,530,793            |
| Total Power .....                            | —                                     | —                    | 7,491                                 | 680,807              | 55,021                                | 3,530,793            |
| Chicopee City of/Dec 31                      |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 262                                   | 11,764               | 262                                   | 11,764               |
| Total Power .....                            | —                                     | —                    | 262                                   | 11,764               | 262                                   | 11,764               |
| Danvers Town of/Dec 31                       |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 872                                   | 28,000               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 872                                   | 28,000               |
| Hingham City of/Dec 31                       |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 4                                     | 4,242                |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 168                                   | 17,258               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 172                                   | 21,500               |
| Holyoke City of/Dec 31                       |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 6,672                                 | 167,521              |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 6,672                                 | 167,521              |
| Littleton Town of/Dec 31                     |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 395                                   | 9,537                |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 395                                   | 9,537                |
| Mansfield Town of/Dec 31                     |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 396                                   | 38,782               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 396                                   | 38,782               |
| North Attleborough Town of/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 66                                    | 8,869                |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 66                                    | 8,869                |
| Reading Town of/Dec 31                       |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 501                                   | 48,133               | 693                                   | 67,300               |
| Total Power .....                            | —                                     | —                    | 501                                   | 48,133               | 693                                   | 67,300               |
| Taunton City of/Dec 31                       |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 15,322                                | 2,332,667            | 23,615                                | 2,623,567            |
| Total Power .....                            | —                                     | —                    | 15,322                                | 2,332,667            | 23,615                                | 2,623,567            |
| Westfield City of/Dec 31                     |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 6,804                                 | 554,029              |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 6,804                                 | 554,029              |
| <b>Michigan</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Grand Haven City of/Jun 30                   |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 82,892                                | 1,995,930            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 82,892                                | 1,995,930            |
| Lansing City of/Jun 30                       |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 5,209                                 | 305,081              | —                                     | —                    | 271,884                               | 9,575,117            |
| Total Power .....                            | 5,209                                 | 305,081              | —                                     | —                    | 271,884                               | 9,575,117            |
| Marquette City of/Jun 30                     |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | 12,289                                | 571,448              | —                                     | —                    | 12,289                                | 571,448              |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 1,790                                 | 77,417               |
| Total Power .....                            | 12,289                                | 571,448              | —                                     | —                    | 14,079                                | 648,865              |
| Traverse City City of/Jun 30                 |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 3,628                                 | 79,933               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 3,628                                 | 79,933               |
| <b>Minnesota</b>                             |                                       |                      |                                       |                      |                                       |                      |
| Austin City of/Dec 31                        |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 136,404                               | 3,150,466            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 136,404                               | 3,150,466            |
| Fairmont Public Utilities Comm/Dec 31        |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 1,018                                 | 35,742               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 1,018                                 | 35,742               |
| Hutchinson Utilities Comm/Dec 31             |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | 44,000               | —                                     | —                    | —                                     | 44,000               |
| Nonfirm Power .....                          | 2,113                                 | 35,686               | —                                     | —                    | 17,718                                | 302,073              |
| Total Power .....                            | 2,113                                 | 79,686               | —                                     | —                    | 17,718                                | 346,073              |
| Rochester Public Utilities/Dec 31            |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 425                                   | 4,395,194            |
| Nonfirm Power .....                          | 106,117                               | 2,560,645            | —                                     | —                    | 191,358                               | 4,526,719            |
| Total Power .....                            | 106,117                               | 2,560,645            | —                                     | —                    | 191,783                               | 8,921,913            |
| Western Minnesota Mun P Agny/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 1,997,174                             | 42,359,351           |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 1,997,174                             | 42,359,351           |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity           |                      |                                    |                      |                                    |                      |
|--|------------------------------------|----------------------|------------------------------------|----------------------|------------------------------------|----------------------|
|  | Investor-Owned                     |                      | Federal                            |                      | State and Other Government         |                      |
|  | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Minnesota</b>                             |                                    |                      |                                    |                      |                                    |                      |
| Worthington City of/Dec 31                   |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| <b>Mississippi</b>                           |                                    |                      |                                    |                      |                                    |                      |
| Clarksdale City of/Sep 30                    |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Greenwood Utilities Comm/Sep 30              |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Municipal Energy Agency of MS/Sep 30         |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 113,878                            | 3,482,835            |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 113,878                            | 3,482,835            |
| <b>Missouri</b>                              |                                    |                      |                                    |                      |                                    |                      |
| Carthage City of/Jun 30                      |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Columbia City of/Sep 30                      |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Independence City of/Jun 30                  |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | 1,113,750            | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 27,731                             | 497,636              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 27,731                             | 1,611,386            | —                                  | —                    | —                                  | —                    |
| Poplar Bluff City of/Dec 31                  |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Sikeston City of/May 31                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 2,370                              | 25,060               | —                                  | —                    | 13,298                             | 226,075              |
| Total Power .....                            | 2,370                              | 25,060               | —                                  | —                    | 13,298                             | 226,075              |
| Springfield City of/Jun 30                   |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 50                                 | 22,000               | —                                  | —                    | 875                                | 42,000               |
| Total Power .....                            | 50                                 | 22,000               | —                                  | —                    | 875                                | 42,000               |
| <b>Nebraska</b>                              |                                    |                      |                                    |                      |                                    |                      |
| Beatrice City of/Jul 31                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 181,868                            | 6,855,099            |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 181,868                            | 6,855,099            |
| Fremont City of/Jul 31                       |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | 10,844                             | 216,945              |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 10,844                             | 216,945              |
| Grand Island City of/Jul 31                  |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | 39,404                             | 507,586              |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 39,404                             | 507,586              |
| Hastings City of/Dec 31                      |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | 128,043                            | 1,168,923            |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 128,043                            | 1,168,923            |
| Lincoln Electric System/Dec 31               |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 77,356                             | 1,289,679            | 3,219                              | 41,139               | 5,903                              | 87,929               |
| Total Power .....                            | 77,356                             | 1,289,679            | 3,219                              | 41,139               | 5,903                              | 87,929               |
| <b>New Mexico</b>                            |                                    |                      |                                    |                      |                                    |                      |
| Farmington City of/Jun 30                    |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 4,338                              | 49,795               | —                                  | —                    | 250                                | 2,500                |
| Total Power .....                            | 4,338                              | 49,795               | —                                  | —                    | 250                                | 2,500                |
| Los Alamos County/Jun 30                     |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 4,771                              | 74,380               | 72                                 | 1,245                | 3,363                              | 44,162               |
| Total Power .....                            | 4,771                              | 74,380               | 72                                 | 1,245                | 3,363                              | 44,162               |
| <b>New York</b>                              |                                    |                      |                                    |                      |                                    |                      |
| Freeport Village of Inc/Feb 28               |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 283                                | 24,634               | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 283                                | 24,634               | —                                  | —                    | —                                  | —                    |
| Jamestown City of/Dec 31                     |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 57,445                             | 1,172,992            | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 57,445                             | 1,172,992            | —                                  | —                    | —                                  | —                    |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Cooperative                           |                      | Other <sup>1</sup>                    |                      | Total                                 |                      |
|  | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Minnesota</b>                             |                                       |                      |                                       |                      |                                       |                      |
| Worthington City of/Dec 31                   |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 3,333                                 | 142,026              | 3,333                                 | 142,026              |
| Total Power .....                            | —                                     | —                    | 3,333                                 | 142,026              | 3,333                                 | 142,026              |
| <b>Mississippi</b>                           |                                       |                      |                                       |                      |                                       |                      |
| Clarksdale City of/Sep 30                    |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 46,132                                | 2,185,133            | 46,132                                | 2,185,133            |
| Total Power .....                            | —                                     | —                    | 46,132                                | 2,185,133            | 46,132                                | 2,185,133            |
| Greenwood Utilities Comm/Sep 30              |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 28,945                                | 1,635,339            | 28,945                                | 1,635,339            |
| Total Power .....                            | —                                     | —                    | 28,945                                | 1,635,339            | 28,945                                | 1,635,339            |
| Municipal Energy Agency of MS/Sep 30         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 758,624                               | 24,709,010           | 872,502                               | 28,191,845           |
| Total Power .....                            | —                                     | —                    | 758,624                               | 24,709,010           | 872,502                               | 28,191,845           |
| <b>Missouri</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Carthage City of/Jun 30                      |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 1,546                                 | 52,955               | 1,546                                 | 52,955               |
| Total Power .....                            | —                                     | —                    | 1,546                                 | 52,955               | 1,546                                 | 52,955               |
| Columbia City of/Sep 30                      |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 1,939                                 | 77,211               | 1,939                                 | 77,211               |
| Total Power .....                            | —                                     | —                    | 1,939                                 | 77,211               | 1,939                                 | 77,211               |
| Independence City of/Jun 30                  |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | —                                     | 1,113,750            |
| Nonfirm Power .....                          | 1,217                                 | 20,328               | —                                     | —                    | 28,948                                | 517,964              |
| Total Power .....                            | 1,217                                 | 20,328               | —                                     | —                    | 28,948                                | 1,631,714            |
| Poplar Bluff City of/Dec 31                  |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 5,890                                 | 118,153              | 5,890                                 | 118,153              |
| Total Power .....                            | —                                     | —                    | 5,890                                 | 118,153              | 5,890                                 | 118,153              |
| Sikeston City of/May 31                      |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 1,356,786                             | 40,460,385           | 1,356,786                             | 40,460,385           |
| Nonfirm Power .....                          | 23,487                                | 363,551              | 36,003                                | 639,865              | 75,158                                | 1,254,551            |
| Total Power .....                            | 23,487                                | 363,551              | 1,392,789                             | 41,100,250           | 1,431,944                             | 41,714,936           |
| Springfield City of/Jun 30                   |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 162,438                               | 4,253,000            | 162,438                               | 4,253,000            |
| Nonfirm Power .....                          | 10,069                                | 339,000              | 18,956                                | 446,000              | 29,950                                | 849,000              |
| Total Power .....                            | 10,069                                | 339,000              | 181,394                               | 4,699,000            | 192,388                               | 5,102,000            |
| <b>Nebraska</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Beatrice City of/Jul 31                      |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 181,868                               | 6,855,099            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 181,868                               | 6,855,099            |
| Fremont City of/Jul 31                       |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 10,844                                | 216,945              |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 10,844                                | 216,945              |
| Grand Island City of/Jul 31                  |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 39,404                                | 507,586              |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 39,404                                | 507,586              |
| Hastings City of/Dec 31                      |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 17,722                                | 213,867              | 145,765                               | 1,382,790            |
| Total Power .....                            | —                                     | —                    | 17,722                                | 213,867              | 145,765                               | 1,382,790            |
| Lincoln Electric System/Dec 31               |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 68,555                                | 2,087,838            | 68,555                                | 2,087,838            |
| Nonfirm Power .....                          | 553,755                               | 7,081,071            | 8,497                                 | 99,849               | 648,730                               | 8,599,667            |
| Total Power .....                            | 553,755                               | 7,081,071            | 77,052                                | 2,187,687            | 717,285                               | 10,687,505           |
| <b>New Mexico</b>                            |                                       |                      |                                       |                      |                                       |                      |
| Farmington City of/Jun 30                    |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 480                                   | 7,040                | 21,370                                | 1,117,029            | 26,438                                | 1,176,364            |
| Total Power .....                            | 480                                   | 7,040                | 21,370                                | 1,117,029            | 26,438                                | 1,176,364            |
| Los Alamos County/Jun 30                     |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 85                                    | 1,342                | 86                                    | 10,985               | 8,377                                 | 132,114              |
| Total Power .....                            | 85                                    | 1,342                | 86                                    | 10,985               | 8,377                                 | 132,114              |
| <b>New York</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Freeport Village of Inc/Feb 28               |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 283                                   | 24,634               |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 283                                   | 24,634               |
| Jamestown City of/Dec 31                     |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 57,445                                | 1,172,992            |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 57,445                                | 1,172,992            |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity           |                      |                                    |                      |                                    |                      |
|--|------------------------------------|----------------------|------------------------------------|----------------------|------------------------------------|----------------------|
|  | Investor-Owned                     |                      | Federal                            |                      | State and Other Government         |                      |
|  | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>New York</b>                              |                                    |                      |                                    |                      |                                    |                      |
| Rockville Centre Village of/May 31           |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 140                                | 8,462                | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 140                                | 8,462                | —                                  | —                    | —                                  | —                    |
| <b>North Carolina</b>                        |                                    |                      |                                    |                      |                                    |                      |
| Greenville Utilities Comm/Jun 30             |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| New Bern City of/Jun 30                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| North Carolina Eastern M P A/Dec 31          |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 416,617                            | 38,416,000           | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 416,617                            | 38,416,000           | —                                  | —                    | —                                  | —                    |
| North Carolina Mun Power Agny/Dec 31         |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 2,279,545                          | 132,422,902          | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 19,644                             | 179,144              | —                                  | —                    | 3,611                              | 45,204               |
| Total Power .....                            | 2,299,189                          | 132,602,046          | —                                  | —                    | 3,611                              | 45,204               |
| Rocky Mount City of/Jun 30                   |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Wilson City of/Jun 30                        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| <b>Ohio</b>                                  |                                    |                      |                                    |                      |                                    |                      |
| American Mun Power-Ohio Inc/Dec 31           |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Bowling Green City of/Jun 30                 |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Bryan City of/Dec 31                         |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Hamilton City of/Dec 31                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Orrville City of/Dec 31                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Piqua City of/Dec 31                         |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| St Marys City of/Dec 31                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| <b>Oregon</b>                                |                                    |                      |                                    |                      |                                    |                      |
| Eugene City of/Dec 31                        |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 65,582                             | 1,636,242            | 70                                 | 1,510                | 68,948                             | 1,199,152            |
| Total Power .....                            | 65,582                             | 1,636,242            | 70                                 | 1,510                | 68,948                             | 1,199,152            |
| <b>South Carolina</b>                        |                                    |                      |                                    |                      |                                    |                      |
| Piedmont Municipal Power Agny/Dec 31         |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 1,407,108                          | 46,827,000           | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | 400                                | 5,000                |
| Total Power .....                            | 1,407,108                          | 46,827,000           | —                                  | —                    | 400                                | 5,000                |
| <b>South Dakota</b>                          |                                    |                      |                                    |                      |                                    |                      |
| Pierre City of/Dec 31                        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 14,923                             | 313,633              |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 14,923                             | 313,633              |
| <b>Texas</b>                                 |                                    |                      |                                    |                      |                                    |                      |
| Austin City of/Dec 31                        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 208,573                            | 3,584,084            | —                                  | —                    | 22,157                             | 586,738              |
| Total Power .....                            | 208,573                            | 3,584,084            | —                                  | —                    | 22,157                             | 586,738              |
| Brownsville Public Utils Board/Sep 30        |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 19,741                             | 94,363               | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 19,741                             | 94,363               | —                                  | —                    | —                                  | —                    |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity              |                      |                                       |                      |                                       |                      |
|--|---------------------------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|
|  | Cooperative                           |                      | Other <sup>1</sup>                    |                      | Total                                 |                      |
|  | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For<br>Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>New York</b>                              |                                       |                      |                                       |                      |                                       |                      |
| Rockville Centre Village of/May 31           |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 140                                   | 8,462                |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 140                                   | 8,462                |
| <b>North Carolina</b>                        |                                       |                      |                                       |                      |                                       |                      |
| Greenville Utilities Comm/Jun 30             |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 37,000                                | 2,870,661            | 37,000                                | 2,870,661            |
| Total Power .....                            | —                                     | —                    | 37,000                                | 2,870,661            | 37,000                                | 2,870,661            |
| New Bern City of/Jun 30                      |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 223                                   | 17,945               | 223                                   | 17,945               |
| Total Power .....                            | —                                     | —                    | 223                                   | 17,945               | 223                                   | 17,945               |
| North Carolina Eastern M P A/Dec 31          |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 6,291,403                             | 422,811,000          | 6,708,020                             | 461,227,000          |
| Total Power .....                            | —                                     | —                    | 6,291,403                             | 422,811,000          | 6,708,020                             | 461,227,000          |
| North Carolina Mun Power Agny/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 4,221,890                             | 238,604,275          | 6,501,435                             | 371,027,177          |
| Nonfirm Power .....                          | 935                                   | 12,581               | 127,952                               | 1,798,548            | 152,142                               | 2,035,477            |
| Total Power .....                            | 935                                   | 12,581               | 4,349,842                             | 240,402,823          | 6,653,577                             | 373,062,654          |
| Rocky Mount City of/Jun 30                   |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 20,087                                | 1,315,557            | 20,087                                | 1,315,557            |
| Total Power .....                            | —                                     | —                    | 20,087                                | 1,315,557            | 20,087                                | 1,315,557            |
| Wilson City of/Jun 30                        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 64,185                                | 4,882,896            | 64,185                                | 4,882,896            |
| Total Power .....                            | —                                     | —                    | 64,185                                | 4,882,896            | 64,185                                | 4,882,896            |
| <b>Ohio</b>                                  |                                       |                      |                                       |                      |                                       |                      |
| American Mun Power-Ohio Inc/Dec 31           |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 4,984,129                             | 172,542,459          | 4,984,129                             | 172,542,459          |
| Total Power .....                            | —                                     | —                    | 4,984,129                             | 172,542,459          | 4,984,129                             | 172,542,459          |
| Bowling Green City of/Jun 30                 |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 2,907                                 | 149,993              | 2,907                                 | 149,993              |
| Total Power .....                            | —                                     | —                    | 2,907                                 | 149,993              | 2,907                                 | 149,993              |
| Bryan City of/Dec 31                         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 1,264                                 | 19,300               | 1,264                                 | 19,300               |
| Total Power .....                            | —                                     | —                    | 1,264                                 | 19,300               | 1,264                                 | 19,300               |
| Hamilton City of/Dec 31                      |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 159,903                               | 3,834,483            | 159,903                               | 3,834,483            |
| Nonfirm Power .....                          | —                                     | —                    | 794                                   | 26,087               | 794                                   | 26,087               |
| Total Power .....                            | —                                     | —                    | 160,697                               | 3,860,570            | 160,697                               | 3,860,570            |
| Orrville City of/Dec 31                      |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 33,535                                | 728,035              | 33,535                                | 728,035              |
| Nonfirm Power .....                          | —                                     | —                    | 5,560                                 | 269,423              | 5,560                                 | 269,423              |
| Total Power .....                            | —                                     | —                    | 39,095                                | 997,458              | 39,095                                | 997,458              |
| Piqua City of/Dec 31                         |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 38                                    | 2,761                | 38                                    | 2,761                |
| Total Power .....                            | —                                     | —                    | 38                                    | 2,761                | 38                                    | 2,761                |
| St Marys City of/Dec 31                      |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 8,917                                 | 237,456              | 8,917                                 | 237,456              |
| Total Power .....                            | —                                     | —                    | 8,917                                 | 237,456              | 8,917                                 | 237,456              |
| <b>Oregon</b>                                |                                       |                      |                                       |                      |                                       |                      |
| Eugene City of/Dec 31                        |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | 57                                    | 687                  | 30,916                                | 548,019              | 165,573                               | 3,385,610            |
| Total Power .....                            | 57                                    | 687                  | 30,916                                | 548,019              | 165,573                               | 3,385,610            |
| <b>South Carolina</b>                        |                                       |                      |                                       |                      |                                       |                      |
| Piedmont Municipal Power Agny/Dec 31         |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 1,696,090                             | 94,076,000           | 3,103,198                             | 140,903,000          |
| Nonfirm Power .....                          | —                                     | —                    | —                                     | —                    | 400                                   | 5,000                |
| Total Power .....                            | —                                     | —                    | 1,696,090                             | 94,076,000           | 3,103,598                             | 140,908,000          |
| <b>South Dakota</b>                          |                                       |                      |                                       |                      |                                       |                      |
| Pierre City of/Dec 31                        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | —                                     | —                    | 14,923                                | 313,633              |
| Total Power .....                            | —                                     | —                    | —                                     | —                    | 14,923                                | 313,633              |
| <b>Texas</b>                                 |                                       |                      |                                       |                      |                                       |                      |
| Austin City of/Dec 31                        |                                       |                      |                                       |                      |                                       |                      |
| Firm Power .....                             | —                                     | —                    | 203,595                               | 4,458,378            | 203,595                               | 4,458,378            |
| Nonfirm Power .....                          | 169,317                               | 3,400,552            | 738,786                               | 22,472,200           | 1,138,833                             | 30,043,574           |
| Total Power .....                            | 169,317                               | 3,400,552            | 942,381                               | 26,930,578           | 1,342,428                             | 34,501,952           |
| Brownsville Public Utils Board/Sep 30        |                                       |                      |                                       |                      |                                       |                      |
| Nonfirm Power .....                          | —                                     | —                    | 16,056                                | 39,189               | 35,797                                | 133,552              |
| Total Power .....                            | —                                     | —                    | 16,056                                | 39,189               | 35,797                                | 133,552              |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity           |                      |                                    |                      |                                    |                      |
|--|------------------------------------|----------------------|------------------------------------|----------------------|------------------------------------|----------------------|
|  | Investor-Owned                     |                      | Federal                            |                      | State and Other Government         |                      |
|  | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Texas</b>                                 |                                    |                      |                                    |                      |                                    |                      |
| Bryan City of/Dec 31                         |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Denton City of/Sep 30                        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Garland City of/Sep 30                       |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Greenville Electric Util Sys/Sep 30          |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| San Antonio Public Service Bd/Jan 31         |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 117,827                            | 2,206,085            | —                                  | —                    | 40,707                             | 893,367              |
| Total Power .....                            | 117,827                            | 2,206,085            | —                                  | —                    | 40,707                             | 893,367              |
| Texas Municipal Power Agency/Sep 30          |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| <b>Utah</b>                                  |                                    |                      |                                    |                      |                                    |                      |
| Intermountain Power Agency/June 30           |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 269,272                            | 20,328,700           | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 11,450                             | 75,184               | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 280,722                            | 20,403,884           | —                                  | —                    | —                                  | —                    |
| Provo City Corp/June 30                      |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 612,071                            | 13,097,168           |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 612,071                            | 13,097,168           |
| <b>Vermont</b>                               |                                    |                      |                                    |                      |                                    |                      |
| Burlington City of/June 30                   |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 18,371                             | 3,576,081            | —                                  | —                    | 952                                | 52,649               |
| Nonfirm Power .....                          | 5,174                              | 124,545              | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 23,545                             | 3,700,626            | —                                  | —                    | 952                                | 52,649               |
| <b>Washington</b>                            |                                    |                      |                                    |                      |                                    |                      |
| Tacoma City of/Dec 31                        |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 114,186                            | 1,219,712            | 342,699                            | 16,609,586           | 10,023                             | 63,826               |
| Total Power .....                            | 114,186                            | 1,219,712            | 342,699                            | 16,609,586           | 10,023                             | 63,826               |
| <b>Wisconsin</b>                             |                                    |                      |                                    |                      |                                    |                      |
| Badger Power Marketing Auth/Dec 31           |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Manitowoc Public Utilities/Dec 31            |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 98                                 | 3,657                | —                                  | —                    | —                                  | —                    |
| Total Power .....                            | 98                                 | 3,657                | —                                  | —                    | —                                  | —                    |
| Wisconsin Public Power Inc Sys/Dec 31        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | —                                  | —                    |
| Nonfirm Power .....                          | 16,035                             | 2,710,714            | 15                                 | 197                  | 1,158                              | 22,252               |
| Total Power .....                            | 16,035                             | 2,710,714            | 15                                 | 197                  | 1,158                              | 22,252               |

See notes and footnotes at end of table.

**Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)**

| State / Utility /<br>Fiscal Year Ending Date | Purchaser of Electricity           |                      |                                    |                      |                                    |                      |
|--|------------------------------------|----------------------|------------------------------------|----------------------|------------------------------------|----------------------|
|  | Cooperative                        |                      | Other <sup>1</sup>                 |                      | Total                              |                      |
|  | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) | Sales For Resale<br>(thousand kWh) | Revenue<br>(dollars) |
| <b>Texas</b>                                 |                                    |                      |                                    |                      |                                    |                      |
| Bryan City of/Dec 31                         |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | 293,450                            | 15,012,205           | 293,450                            | 15,012,205           |
| Nonfirm Power .....                          | —                                  | —                    | 223,135                            | 6,335,014            | 223,135                            | 6,335,014            |
| Total Power .....                            | —                                  | —                    | 516,585                            | 21,347,219           | 516,585                            | 21,347,219           |
| Denton City of/Sep 30                        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | 97,368                             | 2,912,522            | 97,368                             | 2,912,522            |
| Total Power .....                            | —                                  | —                    | 97,368                             | 2,912,522            | 97,368                             | 2,912,522            |
| Garland City of/Sep 30                       |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | 4,190,518            | —                                  | 4,190,518            |
| Total Power .....                            | —                                  | —                    | —                                  | 4,190,518            | —                                  | 4,190,518            |
| Greenville Electric Util Sys/Sep 30          |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | 19,882                             | 7,942,800            | 19,882                             | 7,942,800            |
| Total Power .....                            | —                                  | —                    | 19,882                             | 7,942,800            | 19,882                             | 7,942,800            |
| San Antonio Public Service Bd/Jan 31         |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | 87,122                             | 1,807,504            | 425,940                            | 13,189,277           | 671,596                            | 18,096,233           |
| Total Power .....                            | 87,122                             | 1,807,504            | 425,940                            | 13,189,277           | 671,596                            | 18,096,233           |
| Texas Municipal Power Agency/Sep 30          |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | 2,587,905                          | 163,661,000          | 2,587,905                          | 163,661,000          |
| Total Power .....                            | —                                  | —                    | 2,587,905                          | 163,661,000          | 2,587,905                          | 163,661,000          |
| <b>Utah</b>                                  |                                    |                      |                                    |                      |                                    |                      |
| Intermountain Power Agency/Jun 30            |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | 9,491,710                          | 623,233,800          | 9,760,982                          | 643,562,500          |
| Nonfirm Power .....                          | —                                  | —                    | 650                                | 3,575                | 12,100                             | 78,759               |
| Total Power .....                            | —                                  | —                    | 9,492,360                          | 623,237,375          | 9,773,082                          | 643,641,259          |
| Provo City Corp/Jun 30                       |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | —                                  | —                    | 612,071                            | 13,097,168           |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 612,071                            | 13,097,168           |
| <b>Vermont</b>                               |                                    |                      |                                    |                      |                                    |                      |
| Burlington City of/Jun 30                    |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | 116                                | 11,999               | —                                  | —                    | 19,439                             | 3,640,729            |
| Nonfirm Power .....                          | —                                  | —                    | 83,586                             | 1,763,294            | 88,760                             | 1,887,839            |
| Total Power .....                            | 116                                | 11,999               | 83,586                             | 1,763,294            | 108,199                            | 5,528,568            |
| <b>Washington</b>                            |                                    |                      |                                    |                      |                                    |                      |
| Tacoma City of/Dec 31                        |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | 76,311                             | 1,358,149            | 543,219                            | 19,251,273           |
| Total Power .....                            | —                                  | —                    | 76,311                             | 1,358,149            | 543,219                            | 19,251,273           |
| <b>Wisconsin</b>                             |                                    |                      |                                    |                      |                                    |                      |
| Badger Power Marketing Auth/Dec 31           |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | 282,000                            | 10,467,121           | 282,000                            | 10,467,121           |
| Total Power .....                            | —                                  | —                    | 282,000                            | 10,467,121           | 282,000                            | 10,467,121           |
| Manitowoc Public Utilities/Dec 31            |                                    |                      |                                    |                      |                                    |                      |
| Nonfirm Power .....                          | —                                  | —                    | —                                  | —                    | 98                                 | 3,657                |
| Total Power .....                            | —                                  | —                    | —                                  | —                    | 98                                 | 3,657                |
| Wisconsin Public Power Inc Sys/Dec 31        |                                    |                      |                                    |                      |                                    |                      |
| Firm Power .....                             | —                                  | —                    | 3,301,682                          | 109,712,881          | 3,301,682                          | 109,712,881          |
| Nonfirm Power .....                          | 2,032                              | 55,657               | 45,585                             | 595,395              | 64,825                             | 3,384,215            |
| Total Power .....                            | 2,032                              | 55,657               | 3,347,267                          | 110,308,276          | 3,366,507                          | 113,097,096          |

<sup>1</sup> Includes transactions with municipal utilities, power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the municipal utilities are listed in the State in which the municipality is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities."

**Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1996**

| State / Utility                    | Source of Electricity<br>(Purchases in thousand kWh) |         |                            |           |             |                    | Total   |
|------------------------------------|--|---------|----------------------------|-----------|-------------|--------------------|---------|
|                                    | Investor-Owned                                       | Federal | State and Other Government | Municipal | Cooperative | Other <sup>1</sup> |         |
| <b>Alabama</b>                     |  |         |                            |           |             |                    |         |
| Brundidge City of .....            | —  | —       | —                          | —         | 32,160      | —                  | 32,160  |
| Courtland City of .....            | —  | 21,091  | —                          | —         | —           | —                  | 21,091  |
| Elba City of .....                 | —  | —       | —                          | —         | 54,648      | —                  | 54,648  |
| Hartselle City of .....            | —  | 148,624 | —                          | —         | —           | —                  | 148,624 |
| Muscle Shoals City of/Jun 30 ..... | —  | 224,340 | —                          | —         | —           | —                  | 224,340 |
| Opp City of .....                  | —  | —       | —                          | —         | 80,200      | —                  | 80,200  |
| Tuskegee City of/Sep 30 .....      | —  | 169,104 | —                          | —         | —           | —                  | 169,104 |
| <b>Alaska</b>                      |  |         |                            |           |             |                    |         |
| Arctic Utilities Inc .....         | —  | —       | —                          | —         | —           | 1,951              | 1,951   |
| Unalaska City of .....             | —  | —       | —                          | —         | —           | 365                | 365     |
| <b>Colorado</b>                    |  |         |                            |           |             |                    |         |
| Granada Town of .....              | —  | —       | —                          | 2,969     | —           | —                  | 2,969   |
| <b>Florida</b>                     |  |         |                            |           |             |                    |         |
| Moore Haven City of .....          | —  | —       | —                          | —         | 15,550      | —                  | 15,550  |
| <b>Georgia</b>                     |  |         |                            |           |             |                    |         |
| Doerun City of .....               | —  | —       | 7,301                      | —         | —           | —                  | 7,301   |
| Oxford City of .....               | —  | —       | 12,790                     | —         | —           | —                  | 12,790  |
| <b>Idaho</b>                       |  |         |                            |           |             |                    |         |
| Albion City of .....               | —  | 3,491   | —                          | —         | —           | —                  | 3,491   |
| Bonnors Ferry City of .....        | —  | 48,041  | —                          | —         | —           | —                  | 48,041  |
| Burley City of .....               | —  | 149,687 | —                          | —         | —           | —                  | 149,687 |
| Declo City of .....                | —  | 3,261   | —                          | —         | —           | —                  | 3,261   |
| East End Mutual Elec Co Ltd .....  | —  | 20,071  | —                          | —         | —           | —                  | 20,071  |
| Heyburn City of .....              | —  | 109,111 | —                          | —         | —           | —                  | 109,111 |
| Minidoka City of .....             | —  | —       | —                          | —         | —           | 890                | 890     |
| Plummer Electric Dept .....        | —  | 33,420  | —                          | —         | —           | —                  | 33,420  |
| Rupert City of .....               | —  | 79,495  | —                          | —         | —           | —                  | 79,495  |
| Soda Springs City of .....         | —  | 21,781  | —                          | —         | —           | —                  | 21,781  |
| <b>Illinois</b>                    |  |         |                            |           |             |                    |         |
| Fairfield City of .....            | —  | —       | —                          | —         | 77,138      | —                  | 77,138  |
| McLeansboro City of .....          | —  | —       | —                          | —         | 21,947      | —                  | 21,947  |
| Red Bud City of .....              | —  | —       | —                          | —         | 38,429      | —                  | 38,429  |
| <b>Indiana</b>                     |  |         |                            |           |             |                    |         |
| Cannelton Utilities .....          | —  | —       | —                          | 18,830    | —           | —                  | 18,830  |
| Troy City of .....                 | —  | —       | —                          | 11,141    | —           | —                  | 11,141  |
| <b>Iowa</b>                        |  |         |                            |           |             |                    |         |
| Aplington City of .....            | 5,911  | —       | —                          | —         | —           | —                  | 5,911   |
| Bancroft City of .....             | —  | —       | —                          | —         | 11,119      | —                  | 11,119  |
| Bloomfield City of .....           | —  | —       | —                          | —         | 28,252      | —                  | 28,252  |
| Brooklyn City of .....             | —  | —       | —                          | —         | 11,984      | —                  | 11,984  |
| Cascade City of .....              | —  | —       | —                          | —         | 14,524      | —                  | 14,524  |
| Corwith City of .....              | —  | —       | —                          | —         | 2,527       | —                  | 2,527   |
| Dayton City of .....               | —  | —       | —                          | —         | 5,648       | —                  | 5,648   |
| Durant City of .....               | —  | —       | —                          | —         | 13,025      | —                  | 13,025  |
| Earlville City of .....            | —  | —       | —                          | —         | 4,390       | —                  | 4,390   |
| Ellsworth City of .....            | —  | —       | —                          | —         | 7,771       | —                  | 7,771   |
| Farnhamville City of .....         | —  | —       | —                          | —         | 4,960       | —                  | 4,960   |
| Forest City City of .....          | —  | —       | —                          | —         | 67,696      | —                  | 67,696  |
| Gowrie Municipal Utilities .....   | —  | —       | —                          | —         | 7,429       | —                  | 7,429   |
| Greenfield City of .....           | —  | —       | —                          | —         | 28,931      | —                  | 28,931  |
| Grundy Center City of .....        | —  | —       | —                          | —         | 28,103      | —                  | 28,103  |
| Keosauqua City of .....            | —  | —       | —                          | —         | 11,485      | —                  | 11,485  |
| Lake Mills City of .....           | —  | —       | —                          | —         | 34,046      | —                  | 34,046  |
| Lamoni City of .....               | —  | —       | —                          | —         | 19,274      | —                  | 19,274  |
| Larchwood City of .....            | —  | —       | —                          | —         | 4,960       | —                  | 4,960   |
| Lehigh City of .....               | —  | —       | —                          | —         | 2,382       | —                  | 2,382   |
| New Hampton City of .....          | —  | —       | —                          | —         | 67,387      | —                  | 67,387  |
| Osage City of .....                | —  | —       | —                          | —         | 44,185      | —                  | 44,185  |

See notes and footnotes at end of table.



**Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1996 (Continued)**

| State / Utility                    | Source of Electricity<br>(Purchases in thousand kWh) |         |                            |           |             |                    | Total     |
|------------------------------------|--|---------|----------------------------|-----------|-------------|--------------------|-----------|
|                                    | Investor-Owned                                       | Federal | State and Other Government | Municipal | Cooperative | Other <sup>1</sup> |           |
| <b>Iowa</b>                        |  |         |                            |           |             |                    |           |
| Panora Mun Electric Util.....      | 9,959  | —       | —                          | —         | —           | —                  | 9,959     |
| Paton City of.....                 | —  | —       | —                          | —         | 2,165       | —                  | 2,165     |
| Renwick City of.....               | —  | —       | —                          | —         | 3,921       | —                  | 3,921     |
| Stanton City of.....               | —  | —       | —                          | —         | 7,421       | —                  | 7,421     |
| Stratford City of.....             | —  | —       | —                          | —         | 4,727       | —                  | 4,727     |
| Stuart Municipal Utility.....      | —  | —       | —                          | —         | 12,988      | —                  | 12,988    |
| Sumner City of.....                | —  | —       | —                          | —         | 15,411      | —                  | 15,411    |
| Tennant City of.....               | —  | —       | —                          | 342       | —           | —                  | 342       |
| Webster City City of.....          | —  | —       | —                          | —         | 135,988     | —                  | 135,988   |
| West Bend City of.....             | —  | —       | —                          | —         | 12,729      | —                  | 12,729    |
| Westfield Town of.....             | —  | —       | —                          | —         | 793         | —                  | 793       |
| Wilton City of.....                | —  | —       | —                          | —         | 21,918      | —                  | 21,918    |
| Winterset City of.....             | —  | —       | —                          | —         | 44,800      | —                  | 44,800    |
| Woolstock City of.....             | —  | —       | —                          | 1,595     | —           | —                  | 1,595     |
| <b>Kansas</b>                      |  |         |                            |           |             |                    |           |
| Belleville City of.....            | —  | 18,990  | —                          | —         | —           | —                  | 18,990    |
| Dighton City of.....               | —  | —       | —                          | —         | 10,192      | —                  | 10,192    |
| Herndon City of.....               | —  | —       | —                          | —         | 1,234       | —                  | 1,234     |
| Iuka City of.....                  | —  | —       | —                          | 1,645     | —           | —                  | 1,645     |
| Johnson City of.....               | —  | —       | —                          | —         | 11,756      | —                  | 11,756    |
| Kiowa City of.....                 | —  | —       | —                          | —         | 10,753      | —                  | 10,753    |
| Lakin City of.....                 | —  | —       | —                          | —         | 10,555      | —                  | 10,555    |
| Meade City of.....                 | —  | —       | —                          | —         | 10,154      | —                  | 10,154    |
| Norton City of.....                | —  | —       | —                          | —         | 28,657      | —                  | 28,657    |
| Radium City of.....                | —  | —       | —                          | —         | 598         | —                  | 598       |
| <b>Kentucky</b>                    |  |         |                            |           |             |                    |           |
| Franklin City of/Jun 30.....       | —  | 210,942 | —                          | —         | —           | —                  | 210,942   |
| Glasgow City of/Jun 30.....        | —  | 683,424 | —                          | —         | —           | —                  | 683,424   |
| Mayfield City of/Jun 30.....       | —  | 152,632 | —                          | —         | —           | —                  | 152,632   |
| Russellville City of.....          | —  | 138,024 | —                          | —         | —           | —                  | 138,024   |
| <b>Louisiana</b>                   |  |         |                            |           |             |                    |           |
| Welsh Town of.....                 | —  | —       | 30,802                     | —         | —           | —                  | 30,802    |
| <b>Massachusetts</b>               |  |         |                            |           |             |                    |           |
| Chester Mun Elec Light Dept.....   | —  | —       | 2,394                      | 2,394     | —           | —                  | 4,788     |
| Russell Municipal Light Dept.....  | —  | —       | —                          | —         | —           | 4,318              | 4,318     |
| <b>Michigan</b>                    |  |         |                            |           |             |                    |           |
| Escanaba Munic Elec Util.....      | 24,465   | —       | —                          | —         | —           | —                  | 24,465    |
| Newberry Water & Light Board.....  | —  | —       | —                          | —         | 18,526      | —                  | 18,526    |
| <b>Minnesota</b>                   |  |         |                            |           |             |                    |           |
| Alpha City of.....                 | —  | —       | —                          | —         | 954         | —                  | 954       |
| Alvarado City of.....              | —  | —       | —                          | —         | 4,142       | —                  | 4,142     |
| Bigelow City of.....               | —  | —       | —                          | 2,150     | —           | —                  | 2,150     |
| Caledonia City of.....             | —  | —       | —                          | —         | 19,184      | —                  | 19,184    |
| Ceylon City of.....                | —  | —       | —                          | —         | 2,816       | —                  | 2,816     |
| Dakota Elec Assoc.....             | —  | —       | —                          | —         | 1,253,549   | —                  | 1,253,549 |
| Darwin Village of.....             | —  | —       | —                          | 1,994     | —           | —                  | 1,994     |
| Dunnell Village of.....            | —  | —       | —                          | —         | 1,302       | —                  | 1,302     |
| Grove City City of.....            | —  | —       | —                          | 7,299     | —           | —                  | 7,299     |
| Harmony City of.....               | —  | —       | —                          | —         | 7,978       | —                  | 7,978     |
| Lanesboro Public Utility Comm..... | —  | —       | —                          | —         | 6,503       | —                  | 6,503     |
| Mabel City of.....                 | —  | —       | —                          | —         | 4,577       | —                  | 4,577     |
| Nashwauk City of.....              | —  | —       | —                          | —         | 6,794       | —                  | 6,794     |
| Peterson City of.....              | —  | —       | —                          | —         | 1,498       | —                  | 1,498     |
| Round Lake City of.....            | —  | —       | —                          | —         | 9,182       | —                  | 9,182     |
| Rushmore City of.....              | —  | —       | —                          | 2,181     | —           | —                  | 2,181     |
| Spring Grove City of.....          | —  | —       | —                          | —         | 12,811      | —                  | 12,811    |
| Whalan City of.....                | —  | —       | —                          | —         | 409         | —                  | 409       |

See notes and footnotes at end of table.

**Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1996 (Continued)**

| State / Utility                        | Source of Electricity<br>(Purchases in thousand kWh) |         |                            |           |             |                    | Total   |
|--|--|---------|----------------------------|-----------|-------------|--------------------|---------|
|  | Investor-Owned                                       | Federal | State and Other Government | Municipal | Cooperative | Other <sup>1</sup> |         |
| <b>Mississippi</b>                     |  |         |                            |           |             |                    |         |
| Aberdeen City of/Jun 30.....           | —  | 192,617 | —                          | —         | —           | —                  | 192,617 |
| Amory City of.....                     | —  | 136,423 | —                          | —         | —           | —                  | 136,423 |
| Louisville Electric System/Jun 30..... | —  | 177,081 | —                          | —         | —           | —                  | 177,081 |
| Oxford City of.....                    | —  | 170,899 | —                          | —         | —           | —                  | 170,899 |
| Philadelphia City of.....              | —  | 142,650 | —                          | —         | —           | —                  | 142,650 |
| West Point City of/Jun 30.....         | —  | 206,046 | —                          | —         | —           | —                  | 206,046 |
| <b>Missouri</b>                        |  |         |                            |           |             |                    |         |
| Albany City of.....                    | —  | —       | —                          | —         | 8,658       | 8,658              | 17,316  |
| Ava City of.....                       | —  | —       | —                          | —         | 35,924      | —                  | 35,924  |
| Bethany City of.....                   | —  | —       | —                          | —         | 32,426      | —                  | 32,426  |
| Butler City of.....                    | —  | —       | —                          | —         | 38,056      | —                  | 38,056  |
| Cabool City of.....                    | —  | —       | —                          | —         | 34,864      | —                  | 34,864  |
| Cameron City of.....                   | —  | —       | —                          | —         | 49,695      | —                  | 49,695  |
| Chillicothe City of.....               | —  | —       | —                          | —         | 92,009      | —                  | 92,009  |
| Crane City of.....                     | —  | —       | —                          | —         | 15,159      | —                  | 15,159  |
| Cuba City of.....                      | —  | —       | —                          | —         | 51,877      | —                  | 51,877  |
| Easton City of.....                    | —  | —       | —                          | —         | 1,693       | —                  | 1,693   |
| Fayette City of.....                   | —  | —       | —                          | —         | 19,048      | —                  | 19,048  |
| Gallatin City of.....                  | —  | —       | —                          | —         | 8,527       | 8,528              | 17,055  |
| Houston City of.....                   | —  | —       | —                          | —         | 31,117      | —                  | 31,117  |
| Hunnewell City of.....                 | —  | —       | —                          | —         | 895         | —                  | 895     |
| La Plata City of.....                  | —  | —       | —                          | —         | 20,409      | —                  | 20,409  |
| Macon City of.....                     | —  | —       | —                          | —         | 85,627      | —                  | 85,627  |
| Mansfield City of.....                 | —  | —       | —                          | —         | 22,659      | —                  | 22,659  |
| Meadville City of.....                 | —  | —       | —                          | —         | 2,728       | —                  | 2,728   |
| Memphis City of.....                   | —  | —       | —                          | 17,719    | —           | —                  | 17,719  |
| Milan City of.....                     | —  | —       | —                          | —         | 33,518      | —                  | 33,518  |
| Monroe City City of.....               | —  | —       | —                          | —         | 56,564      | —                  | 56,564  |
| Mountain View City of.....             | —  | —       | —                          | —         | 35,817      | —                  | 35,817  |
| Newburg City of.....                   | —  | —       | —                          | —         | 4,318       | —                  | 4,318   |
| Palmyra City of.....                   | —  | —       | —                          | —         | 41,395      | —                  | 41,395  |
| Paris City of.....                     | —  | —       | —                          | —         | 11,964      | —                  | 11,964  |
| Pattonsburg City of.....               | —  | —       | —                          | —         | 2,584       | —                  | 2,584   |
| Richland City of.....                  | —  | —       | —                          | —         | 18,587      | —                  | 18,587  |
| Rockport City of.....                  | —  | —       | —                          | —         | 14,852      | —                  | 14,852  |
| Salem City of.....                     | —  | —       | —                          | —         | 55,649      | —                  | 55,649  |
| Seymour City of.....                   | —  | —       | —                          | —         | 22,400      | —                  | 22,400  |
| Shelbina City of.....                  | —  | —       | —                          | —         | 38,496      | —                  | 38,496  |
| St Robert City of.....                 | —  | —       | —                          | —         | 34,802      | —                  | 34,802  |
| Stanberry City of.....                 | —  | —       | —                          | —         | 10,635      | —                  | 10,635  |
| Steelville City of.....                | —  | —       | —                          | —         | 21,009      | —                  | 21,009  |
| Sullivan City of.....                  | —  | —       | —                          | —         | 94,859      | —                  | 94,859  |
| Vandalia City of.....                  | —  | —       | —                          | —         | 9,138       | 9,138              | 18,276  |
| Waynesville City of.....               | —  | —       | —                          | —         | 33,521      | —                  | 33,521  |
| Willow Springs City of.....            | —  | —       | —                          | —         | 27,176      | —                  | 27,176  |
| Winona City of.....                    | —  | —       | —                          | —         | 10,510      | —                  | 10,510  |
| <b>Montana</b>                         |  |         |                            |           |             |                    |         |
| Troy City of.....                      | —  | 15,358  | —                          | —         | —           | —                  | 15,358  |
| <b>Nebraska</b>                        |  |         |                            |           |             |                    |         |
| Bartley Village of.....                | —  | —       | 2,090                      | —         | —           | —                  | 2,090   |
| Campbell Village of.....               | —  | —       | —                          | —         | 3,066       | —                  | 3,066   |
| Decatur Village of.....                | —  | —       | 4,571                      | —         | —           | —                  | 4,571   |
| Emerson City of.....                   | —  | —       | 6,324                      | —         | —           | —                  | 6,324   |
| Endicott Village of.....               | —  | —       | —                          | 647       | —           | —                  | 647     |
| Panama Village of.....                 | —  | —       | —                          | 1,530     | —           | —                  | 1,530   |
| Reynolds Village of.....               | —  | —       | —                          | 715       | —           | —                  | 715     |
| St Paul City of.....                   | —  | —       | 17,918                     | —         | —           | —                  | 17,918  |
| Stratton City of.....                  | —  | —       | 4,076                      | —         | —           | —                  | 4,076   |
| Stromsburg City of.....                | —  | —       | 11,129                     | —         | —           | —                  | 11,129  |
| Talmage Village of.....                | —  | —       | —                          | 2,318     | —           | —                  | 2,318   |
| Trenton City of.....                   | —  | —       | 5,913                      | —         | —           | —                  | 5,913   |
| Village of Holbrook.....               | —  | —       | 1,923                      | —         | —           | —                  | 1,923   |

See notes and footnotes at end of table.

**Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1996 (Continued)**

| State / Utility                   | Source of Electricity<br>(Purchases in thousand kWh) |         |                            |           |             |                    | Total   |
|-----------------------------------|--|---------|----------------------------|-----------|-------------|--------------------|---------|
|                                   | Investor-Owned                                       | Federal | State and Other Government | Municipal | Cooperative | Other <sup>1</sup> |         |
| <b>Nevada</b>                     |  |         |                            |           |             |                    |         |
| Caliente City of.....             | —  | —       | 13,190                     | —         | —           | —                  | 13,190  |
| Pioche City of.....               | —  | —       | 6,450                      | —         | —           | —                  | 6,450   |
| <b>New Jersey</b>                 |  |         |                            |           |             |                    |         |
| Milltown Borough of.....          | 33,965   | —       | —                          | —         | —           | —                  | 33,965  |
| Park Ridge Elec Dept Borough..... | 64,030   | —       | —                          | —         | —           | —                  | 64,030  |
| <b>New Mexico</b>                 |  |         |                            |           |             |                    |         |
| Springer Town of.....             | —  | —       | —                          | —         | 5,186       | —                  | 5,186   |
| <b>North Carolina</b>             |  |         |                            |           |             |                    |         |
| Fountain Town of.....             | —  | —       | —                          | 4,490     | —           | —                  | 4,490   |
| Oak City Town of.....             | —  | —       | —                          | —         | 4,850       | —                  | 4,850   |
| <b>Ohio</b>                       |  |         |                            |           |             |                    |         |
| Woodsfield City of.....           | —  | —       | —                          | —         | 22,000      | —                  | 22,000  |
| <b>Oklahoma</b>                   |  |         |                            |           |             |                    |         |
| Anadarko Public Works Auth.....   | —  | —       | —                          | —         | 60,280      | —                  | 60,280  |
| Braman Town of.....               | —  | —       | —                          | 1,813     | —           | —                  | 1,813   |
| Burlington City of.....           | —  | —       | —                          | —         | 1,397       | —                  | 1,397   |
| Cordell City of.....              | —  | —       | —                          | —         | 24,484      | —                  | 24,484  |
| Fort Supply Town of.....          | —  | —       | —                          | —         | 2,562       | —                  | 2,562   |
| Lindsay City of.....              | —  | —       | —                          | —         | 26,338      | —                  | 26,338  |
| Mooreland City of.....            | —  | —       | —                          | —         | 6,750       | —                  | 6,750   |
| <b>Oregon</b>                     |  |         |                            |           |             |                    |         |
| Bandon City of.....               | —  | 58,785  | —                          | —         | —           | —                  | 58,785  |
| Cascade Locks City of.....        | —  | 20,552  | —                          | —         | —           | —                  | 20,552  |
| Drain Electric Dept.....          | —  | 23,850  | —                          | —         | —           | —                  | 23,850  |
| Monmouth City of.....             | —  | 66,531  | —                          | —         | —           | —                  | 66,531  |
| <b>South Carolina</b>             |  |         |                            |           |             |                    |         |
| Bennettsville City of.....        | 100,937  | —       | —                          | —         | —           | —                  | 100,937 |
| <b>South Dakota</b>               |  |         |                            |           |             |                    |         |
| Elk Point City of.....            | —  | —       | —                          | —         | 14,644      | —                  | 14,644  |
| Onida City of.....                | —  | —       | —                          | —         | 6,314       | —                  | 6,314   |
| <b>Tennessee</b>                  |  |         |                            |           |             |                    |         |
| Brownsville City of/Sep 30.....   | —  | 202,729 | —                          | —         | —           | —                  | 202,729 |
| Dayton City of.....               | —  | 216,323 | —                          | —         | —           | —                  | 216,323 |
| Etowah City of/Jun 30.....        | —  | 157,125 | —                          | —         | —           | —                  | 157,125 |
| Sweetwater City of/Jun 30.....    | —  | 208,836 | —                          | —         | —           | —                  | 208,836 |
| Winchester City of.....           | —  | 155,997 | —                          | —         | —           | —                  | 155,997 |
| <b>Texas</b>                      |  |         |                            |           |             |                    |         |
| Electra City of.....              | —  | —       | —                          | —         | 25,919      | —                  | 25,919  |
| Garrison City of.....             | —  | —       | —                          | —         | 9,400       | —                  | 9,400   |
| Hearne City of.....               | —  | —       | —                          | —         | 45,963      | —                  | 45,963  |
| Hemphill City of.....             | —  | —       | —                          | —         | 19,772      | —                  | 19,772  |
| Plains City of.....               | —  | —       | —                          | —         | 6,957       | —                  | 6,957   |
| San Augustine City of.....        | —  | —       | —                          | —         | 23,990      | —                  | 23,990  |
| Sanger City of.....               | —  | —       | —                          | —         | 32,184      | —                  | 32,184  |
| Seymour City of.....              | —  | —       | —                          | —         | 29,033      | —                  | 29,033  |
| Timpson City of.....              | —  | —       | —                          | —         | 12,098      | —                  | 12,098  |
| Waelder Utilities.....            | —  | —       | 11,558                     | —         | —           | —                  | 11,558  |
| Weimar Utilities.....             | —  | —       | 33,673                     | —         | —           | —                  | 33,673  |
| Whitesboro City of.....           | —  | —       | —                          | —         | 28,888      | —                  | 28,888  |
| <b>Virginia</b>                   |  |         |                            |           |             |                    |         |
| Culpeper Town of.....             | —  | 63,005  | 63,005                     | —         | —           | —                  | 126,010 |
| <b>Washington</b>                 |  |         |                            |           |             |                    |         |
| Alder Mutual Lgt Co.....          | —  | 3,286   | —                          | —         | —           | —                  | 3,286   |
| Blaine City of.....               | —  | 65,131  | —                          | —         | —           | —                  | 65,131  |

See notes and footnotes at end of table.

**Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1996 (Continued)**

| State / Utility                     | Source of Electricity<br>(Purchases in thousand kWh) |         |                            |           |             |                    | Total   |
|-------------------------------------|--|---------|----------------------------|-----------|-------------|--------------------|---------|
|                                     | Investor-Owned                                       | Federal | State and Other Government | Municipal | Cooperative | Other <sup>1</sup> |         |
| <b>Washington</b>                   |  |         |                            |           |             |                    |         |
| Chewelah Light Dept.....            | —  | 24,345  | —                          | —         | —           | —                  | 24,345  |
| Coulee Dam Light Dept.....          | —  | —       | —                          | —         | —           | 20,606             | 20,606  |
| Eatonville Town of.....             | —  | 21,577  | —                          | —         | —           | —                  | 21,577  |
| Elmhurst Mutual Power & Lgt.....    | —  | 252,459 | —                          | —         | —           | —                  | 252,459 |
| McCleary Light & Power.....         | —  | 35,826  | —                          | —         | —           | —                  | 35,826  |
| Milton City of.....                 | —  | 64,254  | —                          | —         | —           | —                  | 64,254  |
| Ohop Mutual Light Co.....           | —  | 60,607  | —                          | —         | —           | —                  | 60,607  |
| Parkland Light & Water Co.....      | —  | 105,070 | —                          | —         | —           | —                  | 105,070 |
| Peninsula Light Company.....        | —  | 481,297 | —                          | —         | —           | —                  | 481,297 |
| PUD No 1 Asotin County.....         | —  | —       | —                          | —         | —           | 292                | 292     |
| Steilacoom Town of.....             | —  | 40,738  | —                          | —         | —           | —                  | 40,738  |
| <b>Wisconsin</b>                    |  |         |                            |           |             |                    |         |
| Arcadia City of.....                | —  | —       | —                          | —         | 64,340      | —                  | 64,340  |
| Argyle City of.....                 | —  | —       | —                          | —         | 8,520       | —                  | 8,520   |
| Cashton Village of.....             | —  | —       | —                          | —         | 6,893       | —                  | 6,893   |
| Cumberland City of.....             | —  | —       | —                          | —         | 33,594      | —                  | 33,594  |
| Elroy City of.....                  | —  | —       | —                          | —         | 19,040      | —                  | 19,040  |
| Fennimore City of.....              | —  | —       | —                          | —         | 31,232      | —                  | 31,232  |
| La Farge Municipal Electric Co..... | —  | —       | —                          | 3,014     | 3,014       | —                  | 6,028   |
| New Lisbon City of.....             | —  | —       | —                          | —         | 25,701      | —                  | 25,701  |
| Viola City of.....                  | —  | —       | —                          | —         | 4,390       | —                  | 4,390   |
| <b>Wyoming</b>                      |  |         |                            |           |             |                    |         |
| Basin Town of.....                  | —  | —       | —                          | —         | 9,681       | —                  | 9,681   |
| Midvale Irrigation District.....    | —  | —       | —                          | —         | 233         | —                  | 233     |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the municipalities are listed in the State in which the municipality is located. •Totals may not equal sum of components because of independent rounding.

Source: •Energy Information Administration Form EIA-861, "Annual Electric Utility Report," except where footnoted.

**Table 32. Electricity Exchanges and Wheeling by Publicly Owned Utilities, 1996**  
(Thousand Kilowatthours)

| Public Authority /<br>State / Utility | Exchanges  |            | Wheeling   |            |
|---------------------------------------|------------|------------|------------|------------|
|                                       | Received   | Delivered  | Received   | Delivered  |
| <b>Federal</b>                        |            |            |            |            |
| <b>Alaska</b>                         |            |            |            |            |
| Alaska Power Administration.....      | —          | —          | 372,960    | 372,960    |
| <b>Colorado</b>                       |            |            |            |            |
| Western Area Power Admin.....         | 507,000    | 1,096,000  | 5,997,000  | 5,997,000  |
| <b>Georgia</b>                        |            |            |            |            |
| Southeastern Power Admin.....         | 719        | —          | 515,208    | 515,208    |
| <b>Oklahoma</b>                       |            |            |            |            |
| Southwestern Power Admin.....         | 857,512    | 389,465    | —          | —          |
| <b>Oregon</b>                         |            |            |            |            |
| Bonneville Power Admin.....           | 10,410,118 | 15,065,775 | 58,611,622 | 56,799,260 |
| <b>Tennessee</b>                      |            |            |            |            |
| Tennessee Valley Authority.....       | 22,656,445 | 33,385,182 | 3,552,775  | 3,452,530  |
| <b>State and Other Government</b>     |            |            |            |            |
| <b>Alaska</b>                         |            |            |            |            |
| Alaska Energy Authority.....          | —          | —          | 333,665    | 333,665    |
| <b>California</b>                     |            |            |            |            |
| California Dept-Wtr Resources.....    | 5,267,738  | 2,713,496  | —          | —          |
| Northern California Power Agny.....   | 86,941     | 41,104     | —          | —          |
| <b>Colorado</b>                       |            |            |            |            |
| Platte River Power Authority.....     | 23,004     | 11,128     | —          | —          |
| <b>Georgia</b>                        |            |            |            |            |
| Municipal Electric Authority.....     | —          | —          | 790,799    | 747,305    |
| <b>Massachusetts</b>                  |            |            |            |            |
| Massachusetts Mun Whls Elec Co.....   | 795,490    | 310,060    | —          | —          |
| <b>Oklahoma</b>                       |            |            |            |            |
| Grand River Dam Authority.....        | 109,026    | 21,197     | 11,745     | 11,745     |
| <b>South Carolina</b>                 |            |            |            |            |
| South Carolina Pub Serv Auth.....     | 38,184     | 45,798     | 439,088    | 496,367    |
| <b>Utah</b>                           |            |            |            |            |
| Utah Associated Mun Power Sys.....    | 28,945     | 25,210     | —          | —          |
| <b>Municipal</b>                      |            |            |            |            |
| <b>Arkansas</b>                       |            |            |            |            |
| Jonesboro City of.....                | —          | 142,516    | —          | —          |
| <b>California</b>                     |            |            |            |            |
| Anaheim City of.....                  | 1,751      | 33,100     | —          | —          |
| Lassen Municipal Utility Dist.....    | —          | —          | 153,636    | 153,636    |
| Los Angeles City of.....              | 714,989    | 185,704    | 21,315,941 | 21,272,237 |
| Riverside City of.....                | 75,515     | 60,072     | —          | —          |
| Santa Clara City of.....              | —          | —          | 145,693    | 142,836    |
| Turlock Irrigation District.....      | 3,929      | 941        | 13,821     | 1,979      |
| <b>Colorado</b>                       |            |            |            |            |
| Colorado Springs City of.....         | 1,985      | 1,229      | 47,650     | 47,650     |
| Longmont City of.....                 | —          | —          | 8,176      | 8,165      |
| <b>Connecticut</b>                    |            |            |            |            |
| Connecticut Mun Elec Engy Coop.....   | 134,872    | 11,732     | —          | —          |
| South Norwalk City of.....            | —          | 89         | —          | —          |
| <b>Florida</b>                        |            |            |            |            |
| Jacksonville Electric Auth.....       | —          | —          | 884,743    | 884,743    |
| Lakeland City of.....                 | —          | —          | 202,432    | 201,730    |
| Ocala City of.....                    | —          | —          | 48,736     | 48,736     |
| <b>Iowa</b>                           |            |            |            |            |
| Ames City of.....                     | 154        | 227        | —          | —          |
| Harlan City of.....                   | 3,581      | 4,989      | —          | —          |
| Muscatine City of.....                | —          | —          | 9,607      | 1,136      |
| Pella City of.....                    | 5,666      | 6,759      | —          | —          |
| Tipton City of.....                   | —          | 392        | —          | —          |
| <b>Kansas</b>                         |            |            |            |            |
| Coffeyville City of.....              | 136,648    | 136,857    | —          | —          |
| Kansas City City of.....              | —          | 13,893     | —          | —          |

See notes and footnotes at end of table.

**Table 32. Electricity Exchanges and Wheeling by Publicly Owned Utilities, 1996**  
(Thousand Kilowatthours) (Continued)

| Public Authority /<br>State / Utility | Exchanges |           | Wheeling |           |
|---------------------------------------|-----------|-----------|----------|-----------|
|                                       | Received  | Delivered | Received | Delivered |
| <b>Municipal</b>                      |           |           |          |           |
| <b>Louisiana</b>                      |           |           |          |           |
| Lafayette City of.....                | 9,497     | 9,512     | —        | —         |
| <b>Massachusetts</b>                  |           |           |          |           |
| Ashburnham Town of.....               | 11,349    | 3,935     | —        | —         |
| Boylston Town of.....                 | 6,969     | 3,793     | —        | —         |
| Braintree Town of.....                | 107,485   | 42,918    | —        | —         |
| Chicopee City of.....                 | 1,325     | -967      | —        | —         |
| Danvers Town of.....                  | 87,995    | 38,909    | —        | —         |
| Georgetown City of.....               | 10,430    | 3,744     | —        | —         |
| Groton City of.....                   | 9,336     | 8,314     | —        | —         |
| Hingham City of.....                  | 69,080    | 21,981    | —        | —         |
| Holyoke City of.....                  | 23,011    | 23,826    | 2,788    | —         |
| Hudson Town of.....                   | 35,888    | 14,908    | —        | —         |
| Ipswich Town of.....                  | 35,994    | 3,851     | —        | —         |
| Littleton Town of.....                | 17,462    | 11,760    | —        | —         |
| Mansfield Town of.....                | 54,347    | 23,264    | —        | —         |
| Marblehead City of.....               | 43,890    | 13,772    | —        | —         |
| Middleborough Town of.....            | 18,115    | —         | —        | —         |
| Middleton City of.....                | 11,269    | 5,061     | —        | —         |
| North Attleborough Town of.....       | 90,376    | 22,667    | —        | —         |
| Paxton Town of.....                   | 7,011     | 3,845     | —        | —         |
| Peabody City of.....                  | 223,305   | 62,460    | —        | —         |
| Princeton Town of.....                | 1,177     | 72        | —        | —         |
| Reading Town of.....                  | 160,645   | 72,142    | —        | —         |
| Shrewsbury Town of.....               | 49,194    | 20,877    | —        | —         |
| South Hadley Town of.....             | 9,496     | 6,985     | —        | —         |
| Sterling Town of.....                 | 8,757     | 4,275     | —        | —         |
| Taunton City of.....                  | 271,664   | 12,054    | —        | —         |
| Templeton Town of.....                | 17,300    | 7,787     | —        | —         |
| West Boylston Town of.....            | —         | —         | 16,999   | 8,139     |
| Westfield City of.....                | 101,736   | 38,518    | —        | —         |
| <b>Maryland</b>                       |           |           |          |           |
| Easton Utilities Comm.....            | 185,967   | 1,914     | —        | —         |
| <b>Michigan</b>                       |           |           |          |           |
| Holland City of.....                  | 6,354     | 2,410     | —        | —         |
| Lansing City of.....                  | 2,855     | 3,340     | —        | —         |
| <b>Minnesota</b>                      |           |           |          |           |
| Grand Marais City of.....             | —         | 20        | —        | —         |
| Hutchinson Utilities Comm.....        | 156       | 263       | —        | —         |
| <b>Missouri</b>                       |           |           |          |           |
| Columbia City of.....                 | —         | —         | 189,014  | 186,656   |
| Independence City of.....             | 2,298     | 2,210     | —        | —         |
| Sikeston City of.....                 | 186,037   | 244,871   | —        | —         |
| Springfield City of.....              | 104,915   | 193,424   | —        | —         |
| <b>North Carolina</b>                 |           |           |          |           |
| Fayetteville Public Works Comm.....   | 548,173   | 19,782    | —        | —         |
| <b>Nebraska</b>                       |           |           |          |           |
| Grand Island City of.....             | 40        | 42        | —        | —         |
| Hastings City of.....                 | —         | —         | 5,538    | 5,538     |
| Lincoln Electric System.....          | 15,253    | 16,735    | 109,070  | 109,070   |
| Wayne City of.....                    | —         | —         | 2,025    | 1,942     |
| <b>New Jersey</b>                     |           |           |          |           |
| Vineland City of.....                 | 288,039   | 19,950    | —        | —         |
| <b>New Mexico</b>                     |           |           |          |           |
| Farmington City of.....               | 1,512     | 6,860     | 422,250  | 413,829   |
| Los Alamos County.....                | 48,769    | 21,881    | —        | —         |
| <b>Ohio</b>                           |           |           |          |           |
| American Mun Power-Ohio Inc.....      | —         | —         | 39,840   | 39,840    |
| Cleveland City of.....                | —         | 63,527    | —        | —         |
| Hamilton City of.....                 | 18,066    | 4,185     | —        | —         |
| New Knoxville Village of.....         | —         | —         | 1,923    | 1,923     |
| Orrville City of.....                 | 1,016     | 864       | —        | —         |
| Painesville City of.....              | 3,987     | 2,158     | —        | —         |
| St Marys City of.....                 | 947       | 3,661     | —        | —         |

See notes and footnotes at end of table.

**Table 32. Electricity Exchanges and Wheeling by Publicly Owned Utilities, 1996**

(Thousand Kilowatthours) (Continued)

| Public Authority /<br>State / Utility | Exchanges |           | Wheeling  |           |
|---------------------------------------|-----------|-----------|-----------|-----------|
|                                       | Received  | Delivered | Received  | Delivered |
| <b>Municipal</b>                      |           |           |           |           |
| <b>Oregon</b>                         |           |           |           |           |
| Eugene City of.....                   | 52,482    | 39,033    | —         | —         |
| <b>South Carolina</b>                 |           |           |           |           |
| Piedmont Municipal Power Agny.....    | 614,652   | 622,028   | —         | —         |
| <b>Texas</b>                          |           |           |           |           |
| Austin City of.....                   | 37,078    | 38,236    | 22,181    | 10,894    |
| Bryan City of.....                    | 161,865   | 167,352   | —         | —         |
| San Antonio City of.....              | 120,869   | 76,618    | —         | —         |
| <b>Utah</b>                           |           |           |           |           |
| Blanding City of.....                 | —         | —         | 1,050     | 1,050     |
| Ephraim City of.....                  | 662       | 662       | —         | —         |
| <b>Virginia</b>                       |           |           |           |           |
| Danville City of.....                 | —         | —         | 21,582    | 21,582    |
| <b>Vermont</b>                        |           |           |           |           |
| Barton Village Inc.....               | 6,235     | 5,802     | —         | —         |
| Burlington City of.....               | 125       | 125       | —         | —         |
| Morrisville Village of.....           | 6,670     | 13,674    | —         | —         |
| <b>Washington</b>                     |           |           |           |           |
| Seattle City of.....                  | 8,004,559 | 9,098,308 | 43,462    | 43,462    |
| Tacoma City of.....                   | 100,206   | 15,949    | 1,394,880 | 1,394,880 |

—Not Applicable

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

# 4. Bulk Power Transactions by Cooperative Utilities

## Overview

This chapter presents electric trade data for cooperative utilities, most of which are participants in the U. S. Department of Agriculture's Rural Utilities Service (RUS) Cooperative Borrowers program. The data are separated and presented for the Power Supply Borrowers and Distribution Borrowers. Power Supply Borrowers generate and purchase electricity for wholesale transactions with other electric utilities, while most Distribution Borrowers do not own generators and provide only distribution services to the final consumer. Cooperative borrowers are required to provide RUS with financial and operational data to support the RUS loan management program. The cooperative borrowers represent nearly all the cooperatives in the country.<sup>14</sup>

There are many types of cooperative associations, but five basic principles or features distinguish cooperatives from other types of private enterprise businesses.

- Ownership is held by member-users.
- Control is on the basis of one vote per member, or on volume provided.
- Operations have an at-cost (nonprofit) objective.
- Dividends on member capital are limited.
- Education is necessary for understanding and support.<sup>15</sup>

Cooperative entities are recognized by State statutes, which differ by State. Cooperatives can use a variety of generic labels depending on State statutes: mutuals and cooperatives (Washington, Idaho, and Nevada); cooperatives, rural electric membership corporations (North Carolina); rural electric systems, electric power associations (Mississippi), etc. In addition, many cooperatives are incorporated. Federal legislation further defines cooperative activities. Cooperatives are organized for a variety of reasons including insurance, agricultural, telephone, water, and electrical services.

There were about 35 electric cooperatives which predated the establishment of the Rural Electrification Administration (REA), the predecessor of RUS, in 1935. A number of these cooperatives were formed as mutual associations. Many of these early efforts, however, were not successful. It was the establishment of the REA and other activities starting in 1935 that initiated the major development phase of cooperative electrification. This chapter focuses on purchases by cooperative borrowers because, at this time, RUS computerizes only individual utility transactions with other utilities for purchased power. Therefore, data on sales for resale are not presented in this chapter. Because RUS does not collect information on exchanges and wheeling, data from the Form EIA-861, "Annual Electric Utility Report," were used to provide aggregate data totals for the cooperative borrowers. Form EIA-861 is a mandatory form filed annually by all electric utilities in the United States on a calendar-year basis.

## Tables

This chapter presents data on each of the cooperative utilities, most of which are RUS electric borrowers. These cooperatives purchased electricity from other cooperatives, investor-owned, Federally owned, municipal utilities, and State authorities. Electricity purchases by power supply cooperatives are presented in Table 33 and by distribution cooperatives in Table 34. Cooperatives not listed elsewhere are presented in Table 35. Table 36 provides data on exchanges and transmission service transactions of the cooperative borrowers.

The tables present aggregate data on total quantity and value of each cooperative's electric utility trade. The reported quantities cannot be broken into firm and interruptible trade classifications. Nor is information available on demand, energy, and other revenues and costs. For ease of identification, the cooperative borrowers are listed by State according to the mailing address of the administrative office. This listing does not necessarily reflect the electrical geographics of a cooperative's electrical system.

<sup>14</sup> There have been fewer than 50 RUS borrowers that have paid off their loans. Those utilities are not required to file the RUS forms.

<sup>15</sup> Information paraphrased and quoted from Agricultural Cooperative Service, U. S. Department of Agriculture, "Cooperative Principles and Legal Foundations," Cooperative Information Report 1, Section 1 (March 1982), p. 3.



## Highlights

While power supply cooperatives operate generation facilities to meet the needs of both bulk power requirements of their membership and supply the end-using customer, no cooperatives were among the top 50 of all utilities for generation and count of end-use customers. In part, this reflects the historical mission of cooperative utilities to serve low-population areas. Yet, these cooperative utilities do provide service to large areas of the United States.

## Summary

Power supply cooperatives, although small in total numbers, play an important role in the wholesale power resale market. Their large purchases and wide-ranging redistribution capability have put them in a highly visible position in the cooperative sector of the electric power industry. The amount of electricity a large power supply cooperative purchases is far greater than that of a typical distribution cooperative.

Many of these power suppliers are wholly owned by distribution cooperatives and supply only those cooperatives as wholesale customers. Others are distribution cooperatives with excess generating capability. But as a group, power supply cooperatives continue to purchase more electric power from a wider range of sources.

Regional differences in establishment of cooperatives primarily resulted from the historical development of the electric utility industry. Differences in the volume and type of trade can be related to geographical concentration and the proximity of other utilities and transmission facilities. For instance, some large interconnected transmission systems cross cooperative service territories affording the cooperative multiple sources of power. In contrast, cooperatives that are geographically isolated may only be able to buy from a single source.

Most distribution cooperatives sell power to the ultimate consumers who reside in their service territories. Cooperative service territories generally have a lower density of customers and many miles of distribution lines. Although distribution cooperatives do buy power from nearby investor-owned utilities and government authorities, the large majority of distribution cooperatives purchase most of their supply from power supply cooperatives.

**Table 33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1996**

| State /<br>Cooperative Borrower      | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|--------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                      | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                      | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Alabama</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Alabama Electric Coop Inc .....      | 713,798                        | 23,805,612        | 367,657                        | 10,254,872        | 73                             | 1,739             | 4,912                          |
| <b>Alaska</b>                        |                                |                   |                                |                   |                                |                   |                                |
| Alaska Electric G & T Coop Inc . . . | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Arizona</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Arizona Electric Pwr Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Arkansas</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Arkansas Electric Coop Corp .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Colorado</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Tri-State G & T Assn Inc .....       | 60,384                         | 1,153,120         | 2,372,777                      | 46,614,143        | 31,834                         | 350,895           | —                              |
| <b>Florida</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Seminole Electric Coop Inc .....     | 1,378,801                      | 126,973,682       | —                              | —                 | —                              | —                 | 190,590                        |
| <b>Georgia</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Oglethorpe Power Corp.....           | 4,168,854                      | 170,179,896       | —                              | —                 | 168,071                        | 3,244,290         | 14,492                         |
| <b>Illinois</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Southern Illinois Power Coop.....    | —                              | 19,210            | 41,350                         | 919,968           | —                              | —                 | —                              |
| <b>Indiana</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Hoosier Energy R E C Inc .....       | 334,334                        | 8,827,118         | —                              | —                 | —                              | —                 | —                              |
| <b>Iowa</b>                          |                                |                   |                                |                   |                                |                   |                                |
| Central Iowa Power Coop.....         | —                              | —                 | 78,275                         | 1,054,675         | —                              | —                 | 630                            |
| Corn Belt Power Coop .....           | —                              | 52,400            | 139,078                        | 1,855,278         | —                              | —                 | —                              |
| L & O Power Coop.....                | —                              | —                 | 74,183                         | 989,238           | —                              | —                 | —                              |
| Northwest Iowa Power Coop            | —                              | —                 | 296,997                        | 3,902,937         | —                              | —                 | —                              |
| <b>Kansas</b>                        |                                |                   |                                |                   |                                |                   |                                |
| Kansas Electric Power Coop Inc       | 607,569                        | 20,237,011        | 382,433                        | 10,159,965        | —                              | —                 | —                              |
| Sunflower Electric Power Corp.....   | 31,543                         | 1,375,605         | —                              | —                 | 125,183                        | 2,202,418         | 7,742                          |
| <b>Kentucky</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Big Rivers Electric Corp.....        | 55,756                         | 1,191,737         | 210,594                        | 5,848,368         | —                              | —                 | 1,582,730                      |
| East Kentucky Power Coop Inc         | 617,370                        | 13,852,315        | 4,138,876                      | 76,987,336        | —                              | —                 | —                              |
| <b>Louisiana</b>                     |                                |                   |                                |                   |                                |                   |                                |
| Cajun Electric Power Coop Inc.....   | 279,655                        | 6,359,833         | 256,433                        | 3,888,611         | —                              | —                 | —                              |
| <b>Michigan</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Wolverine Pwr Supply Coop Inc        | 1,120,958                      | 40,485,802        | —                              | —                 | —                              | —                 | —                              |
| <b>Minnesota</b>                     |                                |                   |                                |                   |                                |                   |                                |
| Coop Power Assn .....                | 186,122                        | 3,262,423         | 553,469                        | 7,583,994         | 260,664                        | 3,639,625         | 962                            |
| United Power Assn .....              | 161,540                        | 3,918,810         | 106,175                        | 1,621,057         | -224,013                       | -4,088,633        | 144,413                        |
| <b>Mississippi</b>                   |                                |                   |                                |                   |                                |                   |                                |
| South Mississippi El Pwr Assn.....   | 19,550                         | 509,865           | 274,648                        | 8,777,245         | —                              | —                 | —                              |
| <b>Missouri</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Associated Electric Coop Inc .....   | 2,748,899                      | 99,382,282        | 1,695,744                      | 29,958,143        | 2,447,213                      | 33,707,467        | 4,049,291                      |
| Central Electric Power Coop.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| M & A Electric Power Coop .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| N W Electric Power Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Northeast Missouri El Pwr Coop . .   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sho-Me Power Electric Coop.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Montana</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Upper Missouri G&T El Coop Inc       | —                              | —                 | 327,229                        | 4,649,229         | —                              | —                 | —                              |

See notes and footnotes at end of table.

**Table 33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity |                                |                   |                                |                   |                                |                   |
|--------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                      | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                      | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Alabama</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Alabama Electric Coop Inc .....      | 198,393               | 874,800                        | 23,207,867        | 735,117                        | 13,730,799        | 2,696,357                      | 71,199,282        |
| <b>Alaska</b>                        |                       |                                |                   |                                |                   |                                |                   |
| Alaska Electric G & T Coop Inc . . . | —                     | 905,824                        | 36,765,267        | —                              | —                 | 905,824                        | 36,765,267        |
| <b>Arizona</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Arizona Electric Pwr Coop Inc .....  | —                     | —                              | —                 | 2,108,022                      | 46,005,909        | 2,108,022                      | 46,005,909        |
| <b>Arkansas</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Arkansas Electric Coop Corp .....    | —                     | —                              | —                 | 3,101,923                      | 47,342,728        | 3,101,923                      | 47,342,728        |
| <b>Colorado</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Tri-State G & T Assn Inc .....       | —                     | 1,376,433                      | 45,506,389        | 2,409,837                      | 47,013,810        | 6,251,265                      | 140,638,357       |
| <b>Florida</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Seminole Electric Coop Inc .....     | 13,394,819            | 192,572                        | 4,520,615         | 600,443                        | 52,785,984        | 2,362,406                      | 197,675,100       |
| <b>Georgia</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Oglethorpe Power Corp.....           | 446,389               | 1,601,275                      | 40,236,165        | 654,239                        | 14,982,038        | 6,606,931                      | 229,088,778       |
| <b>Illinois</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Southern Illinois Power Coop.....    | 91,000                | 331                            | 17,135            | —                              | —                 | 41,681                         | 1,047,313         |
| <b>Indiana</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Hoosier Energy R E C Inc .....       | —                     | 144,695                        | 6,717,959         | 24,472                         | 453,544           | 503,501                        | 15,998,621        |
| <b>Iowa</b>                          |                       |                                |                   |                                |                   |                                |                   |
| Central Iowa Power Coop.....         | 11,929                | 1,100                          | 61,135            | 264                            | 15,040            | 80,269                         | 1,142,779         |
| Corn Belt Power Coop .....           | —                     | 5,159                          | 113,337           | 3                              | 55                | 144,240                        | 2,021,070         |
| L & O Power Coop.....                | —                     | 99,026                         | 3,686,352         | —                              | —                 | 173,209                        | 4,675,590         |
| Northwest Iowa Power Coop            | —                     | 424,455                        | 16,482,182        | 193                            | 2,930             | 721,645                        | 20,388,049        |
| <b>Kansas</b>                        |                       |                                |                   |                                |                   |                                |                   |
| Kansas Electric Power Coop Inc       | —                     | 36,320                         | 411,415           | —                              | 4,324,738         | 1,026,322                      | 35,133,129        |
| Sunflower Electric Power Corp.....   | 283,190               | 224                            | 4,164             | 3,775                          | 53,695            | 168,467                        | 3,919,072         |
| <b>Kentucky</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Big Rivers Electric Corp.....        | 33,548,515            | 63,021                         | 1,580,808         | 51,169                         | 1,088,962         | 1,963,270                      | 43,258,390        |
| East Kentucky Power Coop Inc         | —                     | 72,812                         | 1,228,916         | 245,851                        | 3,974,184         | 5,074,909                      | 96,042,751        |
| <b>Louisiana</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Cajun Electric Power Coop Inc.....   | —                     | 44,263                         | 940,229           | 237,884                        | 6,480,117         | 818,235                        | 17,668,790        |
| <b>Michigan</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Wolverine Pwr Supply Coop Inc        | —                     | —                              | —                 | 198,762                        | 4,876,343         | 1,319,720                      | 45,362,145        |
| <b>Minnesota</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Coop Power Assn .....                | 25,818                | 756,652                        | 19,114,213        | 25,042                         | 386,777           | 1,782,911                      | 34,012,850        |
| United Power Assn .....              | 3,493,979             | 314,362                        | 6,783,293         | 1,076,837                      | 15,475,975        | 1,579,314                      | 27,204,481        |
| <b>Mississippi</b>                   |                       |                                |                   |                                |                   |                                |                   |
| South Mississippi El Pwr Assn.....   | —                     | 1,077,613                      | 28,623,451        | 330,623                        | 7,998,731         | 1,702,434                      | 45,909,292        |
| <b>Missouri</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Associated Electric Coop Inc .....   | 37,361,224            | 175,167                        | 3,704,004         | 363,392                        | 7,428,354         | 11,479,706                     | 211,541,474       |
| Central Electric Power Coop.....     | —                     | 2,268,825                      | 69,784,469        | —                              | —                 | 2,268,825                      | 69,784,469        |
| M & A Electric Power Coop .....      | —                     | 1,234,540                      | 36,890,405        | —                              | —                 | 1,234,540                      | 36,890,405        |
| N W Electric Power Coop Inc .....    | —                     | 1,229,547                      | 35,343,117        | —                              | —                 | 1,229,547                      | 35,343,117        |
| Northeast Missouri El Pwr Coop . . . | —                     | 1,127,584                      | 30,381,463        | —                              | —                 | 1,127,584                      | 30,381,463        |
| Sho-Me Power Electric Coop.....      | —                     | 2,914,820                      | 88,600,249        | —                              | —                 | 2,914,820                      | 88,600,249        |
| <b>Montana</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Upper Missouri G&T El Coop Inc       | —                     | 722,032                        | 29,478,233        | —                              | —                 | 1,049,261                      | 34,127,462        |

See notes and footnotes at end of table.

**Table 33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower       | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|---------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                       | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                       | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Nebraska</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Nebraska Electric G&T Coop Inc        | —                              | —                 | —                              | —                 | 2,734,746                      | 93,911,386        | —                              |
| <b>New Mexico</b>                     |                                |                   |                                |                   |                                |                   |                                |
| Plains Elec Gen&Trans Coop Inc        | 445,765                        | 6,866,173         | 646,724                        | 12,664,064        | 2,729                          | 53,047            | 85                             |
| <b>North Carolina</b>                 |                                |                   |                                |                   |                                |                   |                                |
| North Carolina El Member Corp         | 9,554,865                      | 381,691,636       | —                              | —                 | 305                            | 6,127             | —                              |
| <b>North Dakota</b>                   |                                |                   |                                |                   |                                |                   |                                |
| Basin Electric Power Coop .....       | 3,505                          | 59,755            | 6,581                          | 5,815,626         | 2,993                          | 85,601            | —                              |
| Central Power Elec Coop Inc.....      | —                              | —                 | 346,080                        | 4,595,783         | —                              | —                 | —                              |
| Minnkota Power Coop Inc .....         | 1,166,388                      | 27,030,657        | 662,519                        | 8,722,752         | 34,219                         | 687,612           | 6,126                          |
| Square Butte Electric Coop.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Ohio</b>                           |                                |                   |                                |                   |                                |                   |                                |
| Buckeye Power Inc.....                | 446,030                        | 12,664,587        | —                              | —                 | —                              | —                 | —                              |
| <b>Oklahoma</b>                       |                                |                   |                                |                   |                                |                   |                                |
| KAMO Electric Coop Inc .....          | 45,068                         | 1,502,398         | —                              | —                 | 1,458,250                      | 53,161,253        | —                              |
| Western Farmers Elec Coop Inc         | 118,124                        | 2,143,971         | 761,360                        | 11,214,780        | 10,610                         | 221,318           | —                              |
| <b>Pennsylvania</b>                   |                                |                   |                                |                   |                                |                   |                                |
| Allegheny Electric Coop Inc.....      | 283,932                        | 13,485,197        | —                              | —                 | 461,911                        | 3,116,770         | —                              |
| <b>South Carolina</b>                 |                                |                   |                                |                   |                                |                   |                                |
| Central Electric Pwr Coop Inc.....    | 103,840                        | 5,507,606         | 321,491                        | 6,890,790         | 8,330,809                      | 315,879,897       | —                              |
| Saluda River Electric Coop Inc.....   | 1,474,258                      | 55,684,957        | —                              | —                 | —                              | —                 | —                              |
| <b>South Dakota</b>                   |                                |                   |                                |                   |                                |                   |                                |
| East River Elec Power Coop Inc        | —                              | 78,430            | 774,810                        | 10,087,798        | —                              | —                 | —                              |
| <b>Texas</b>                          |                                |                   |                                |                   |                                |                   |                                |
| Brazos Electric Power Coop Inc        | 1,074,280                      | 43,290,213        | 54,265                         | 1,333,799         | 103,833                        | 4,757,950         | —                              |
| Northeast Texas Elec Coop Inc .....   | 711,573                        | 25,222,119        | 327,509                        | 5,313,868         | —                              | —                 | —                              |
| Sam Rayburn G&T Elec Coop<br>Inc..... | 3,030                          | 89,575            | —                              | —                 | —                              | —                 | —                              |
| South Texas Electric Coop Inc.....    | 67,852                         | 1,530,891         | 79,852                         | 1,849,998         | 117,215                        | 2,092,564         | 27,476                         |
| Tex-La Electric Coop-Texas Inc.....   | 756,730                        | 30,095,346        | 96,452                         | 1,744,874         | —                              | —                 | —                              |
| <b>Wisconsin</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Dairyland Power Coop.....             | 233,243                        | 4,810,852         | 568,335                        | 8,184,922         | 74,647                         | 1,109,502         | 18,183                         |

See notes and footnotes at end of table.

**Table 33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower       | Source of Electricity |                                |                   |                                |                   |                                |                   |
|---------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                       | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                       | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Nebraska</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Nebraska Electric G&T Coop Inc        | —                     | —                              | —                 | —                              | —                 | 2,734,746                      | 93,911,386        |
| <b>New Mexico</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Plains Elec Gen&Trans Coop Inc        | 1,342                 | 480                            | 7,040             | 3,695                          | 121,810           | 1,099,478                      | 19,713,476        |
| <b>North Carolina</b>                 |                       |                                |                   |                                |                   |                                |                   |
| North Carolina El Member Corp         | —                     | 1,379                          | 30,721            | —                              | —                 | 9,556,549                      | 381,728,484       |
| <b>North Dakota</b>                   |                       |                                |                   |                                |                   |                                |                   |
| Basin Electric Power Coop .....       | —                     | 216,233                        | 4,938,618         | 209,343                        | 2,867,806         | 438,655                        | 13,767,406        |
| Central Power Elec Coop Inc.....      | —                     | 839,427                        | 28,226,189        | —                              | —                 | 1,185,507                      | 32,821,972        |
| Minnkota Power Coop Inc .....         | 105,761               | 45,015                         | 519,068           | 1,157,550                      | 37,367,431        | 3,071,817                      | 74,433,281        |
| Square Butte Electric Coop.....       | —                     | 22,432                         | 188,008           | —                              | —                 | 22,432                         | 188,008           |
| <b>Ohio</b>                           |                       |                                |                   |                                |                   |                                |                   |
| Buckeye Power Inc.....                | —                     | —                              | —                 | —                              | —                 | 446,030                        | 12,664,587        |
| <b>Oklahoma</b>                       |                       |                                |                   |                                |                   |                                |                   |
| KAMO Electric Coop Inc .....          | —                     | 1,967,483                      | 60,650,444        | 9                              | 1,882             | 3,470,810                      | 115,315,977       |
| Western Farmers Elec Coop Inc         | —                     | —                              | —                 | 57,341                         | 1,104,259         | 947,435                        | 14,684,328        |
| <b>Pennsylvania</b>                   |                       |                                |                   |                                |                   |                                |                   |
| Allegheny Electric Coop Inc.....      | —                     | —                              | —                 | 245,813                        | 8,236,145         | 991,656                        | 24,838,112        |
| <b>South Carolina</b>                 |                       |                                |                   |                                |                   |                                |                   |
| Central Electric Pwr Coop Inc.....    | —                     | —                              | —                 | —                              | —                 | 8,756,140                      | 328,278,293       |
| Saluda River Electric Coop Inc.....   | —                     | 14,620                         | 944,661           | 480                            | 105,800           | 1,489,358                      | 56,735,418        |
| <b>South Dakota</b>                   |                       |                                |                   |                                |                   |                                |                   |
| East River Elec Power Coop Inc        | —                     | 969,102                        | 36,196,412        | —                              | —                 | 1,743,912                      | 46,362,640        |
| <b>Texas</b>                          |                       |                                |                   |                                |                   |                                |                   |
| Brazos Electric Power Coop Inc        | —                     | 1,523,560                      | 49,965,279        | 1,612,681                      | 45,471,146        | 4,368,619                      | 144,818,387       |
| Northeast Texas Elec Coop Inc .....   | —                     | 392,186                        | 11,315,545        | —                              | —                 | 1,431,268                      | 41,851,532        |
| Sam Rayburn G&T Elec Coop<br>Inc..... | —                     | 663,239                        | 29,686,073        | 339,588                        | 7,552,938         | 1,005,857                      | 37,328,586        |
| South Texas Electric Coop Inc.....    | 518,622               | 1,468,253                      | 44,202,628        | 56,125                         | 1,408,849         | 1,816,773                      | 51,603,552        |
| Tex-La Electric Coop-Texas Inc.....   | —                     | 270,362                        | 11,016,470        | -7,674                         | 1,891             | 1,115,870                      | 42,858,581        |
| <b>Wisconsin</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Dairyland Power Coop .....            | 286,576               | 2,169,424                      | 30,595,372        | 10,464                         | 307,831           | 3,074,296                      | 45,295,055        |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The Department of Agriculture under the Rural Electrification Act is authorized to provide Federal commitments for long-term financing and to guarantee non-Federal long-term loans to utilities supplying power to rural America. The utilities that received guarantees for their loans are referred to as borrowers by the Rural Utilities Service (formerly, the Rural Electrification Administration). Nonborrowing cooperatives and other utilities that do not borrow from the RUS are not required to file the RUS-7 and RUS-12 forms. •Power supply borrowers generate electricity and sell power to other utilities. •For identification purposes, the Cooperative Borrowers are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," RUS Form 12a through 12i, "Electric Power Supply Borrowers," Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities."

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996**

| State /<br>Cooperative Borrower      | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|--------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                      | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                      | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Alabama</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Arab Electric Coop Inc.....          | —                              | —                 | 301,331                        | 13,711,571        | —                              | —                 | —                              |
| Baldwin County El Member Corp .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Black Warrior Elec Member Corp ..... | 319,496                        | 11,556,208        | 31,668                         | 1,153,931         | —                              | —                 | —                              |
| Central Alabama Electric Coop.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Cherokee Electric Coop.....          | —                              | —                 | 424,430                        | 17,419,259        | —                              | —                 | —                              |
| Clarke-Washington E M C.....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Coosa Valley Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Covington Electric Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Cullman Electric Coop Inc.....       | —                              | —                 | 776,811                        | 34,152,685        | —                              | —                 | —                              |
| Dixie Electric Coop.....             | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Franklin Electric Coop.....          | —                              | —                 | 246,338                        | 10,559,654        | —                              | —                 | —                              |
| Joe Wheeler Elec Member Corp.....    | —                              | —                 | 906,684                        | 39,988,909        | —                              | —                 | —                              |
| National Chemical Corp.....          | —                              | —                 | 328,428                        | 15,021,587        | —                              | —                 | —                              |
| North Alabama Electric Coop.....     | —                              | —                 | 467,197                        | 18,908,577        | —                              | —                 | —                              |
| Pea River Electric Coop.....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Pioneer Electric Coop Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sand Mountain Electric Coop.....     | —                              | —                 | 506,007                        | 22,918,917        | —                              | —                 | —                              |
| South Alabama Elec Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southern Pine Elec Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tallapoosa River Elec Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tombigbee Electric Coop Inc.....     | 112,600                        | 4,078,682         | 11,166                         | 404,601           | —                              | —                 | —                              |
| Wiregrass Electric Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Alaska</b>                        |                                |                   |                                |                   |                                |                   |                                |
| Copper Valley Elec Assn Inc.....     | —                              | —                 | —                              | —                 | 38,453                         | 2,460,972         | —                              |
| Golden Valley Elec Assn Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | 7,851                          |
| Homer Electric Assn Inc.....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Kodiak Electric Assn Inc.....        | —                              | —                 | —                              | —                 | 103,738                        | 6,639,208         | —                              |
| <b>Arizona</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Duncan Valley Elec Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Mohave Electric Coop Inc.....        | 1,135                          | 91,242            | 2,892                          | 112,867           | —                              | —                 | —                              |
| Navopache Electric Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sulphur Springs Valley E C Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Trico Electric Coop Inc.....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Arkansas</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Arkansas Valley Elec Coop Corp.....  | 666,063                        | 20,147,278        | —                              | —                 | —                              | —                 | —                              |
| Ashley Chicot Elec Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| C & L Electric Coop Corp.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Carroll Electric Coop Corp.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Clay County Electric Coop Corp.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Craighead Electric Coop Corp.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Farmers Electric Coop Corp.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| First Electric Coop Corp.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Mississippi Cnty Elec Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| North Arkansas Elec Coop Inc.....    | 7,219                          | 333,170           | —                              | —                 | —                              | —                 | —                              |
| Ouachita Electric Coop Corp.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Ozarks Electric Coop Corp.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Petit Jean Electric Coop Corp.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Rich Mountain Elec Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| South Central Ark El Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southwest Arkansas E C C.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Woodruff Electric Coop Corp.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>California</b>                    |                                |                   |                                |                   |                                |                   |                                |
| Anza Electric Coop Inc.....          | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Plumas-Sierra Rural Elec Coop.....   | 7                              | 723               | 63,594                         | 1,255,668         | 58,133                         | 1,867,684         | —                              |
| Surprise Valley Electric Corp.....   | —                              | —                 | 122,942                        | 3,090,846         | —                              | —                 | —                              |
| <b>Colorado</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Delta Montrose Electric Assn.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Empire Electric Assn Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Grand Valley Rrl Pwr Line Inc.....   | 110,203                        | 4,693,183         | 7,710                          | 158,953           | —                              | —                 | —                              |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower     | Source of Electricity |                                |                   |                                |                   |                                |                   |
|-------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                     | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                     | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Alabama</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Arab Electric Coop Inc.....         | —                     | —                              | —                 | —                              | —                 | 301,331                        | 13,711,571        |
| Baldwin County El Member Corp.....  | —                     | 746,031                        | 31,710,145        | —                              | —                 | 746,031                        | 31,710,145        |
| Black Warrior Elec Member Corp..... | —                     | —                              | —                 | —                              | —                 | 351,164                        | 12,710,139        |
| Central Alabama Electric Coop.....  | —                     | 438,148                        | 17,818,385        | —                              | —                 | 438,148                        | 17,818,385        |
| Cherokee Electric Coop.....         | —                     | —                              | —                 | —                              | —                 | 424,430                        | 17,419,259        |
| Clarke-Washington E M C.....        | —                     | 240,848                        | 9,581,282         | —                              | —                 | 240,848                        | 9,581,282         |
| Coosa Valley Electric Coop Inc..... | —                     | 177,680                        | 7,252,777         | —                              | —                 | 177,680                        | 7,252,777         |
| Covington Electric Coop Inc.....    | —                     | 328,865                        | 13,900,489        | —                              | —                 | 328,865                        | 13,900,489        |
| Cullman Electric Coop Inc.....      | —                     | —                              | —                 | —                              | —                 | 776,811                        | 34,152,685        |
| Dixie Electric Coop.....            | —                     | 245,360                        | 9,701,740         | —                              | —                 | 245,360                        | 9,701,740         |
| Franklin Electric Coop.....         | —                     | —                              | —                 | —                              | —                 | 246,338                        | 10,559,654        |
| Joe Wheeler Elec Member Corp.....   | —                     | —                              | —                 | —                              | —                 | 906,684                        | 39,988,909        |
| National Chemical Corp.....         | —                     | —                              | —                 | —                              | —                 | 328,428                        | 15,021,587        |
| North Alabama Electric Coop.....    | —                     | —                              | —                 | —                              | —                 | 467,197                        | 18,908,577        |
| Pea River Electric Coop.....        | —                     | 243,773                        | 11,298,591        | —                              | —                 | 243,773                        | 11,298,591        |
| Pioneer Electric Coop Inc.....      | —                     | 158,958                        | 6,164,006         | —                              | —                 | 158,958                        | 6,164,006         |
| Sand Mountain Electric Coop.....    | —                     | —                              | —                 | —                              | —                 | 506,007                        | 22,918,917        |
| South Alabama Elec Coop Inc.....    | —                     | 212,918                        | 8,582,297         | —                              | —                 | 212,918                        | 8,582,297         |
| Southern Pine Elec Coop Inc.....    | —                     | 1,110,999                      | 33,093,360        | —                              | —                 | 1,110,999                      | 33,093,360        |
| Tallapoosa River Elec Coop Inc..... | —                     | 267,614                        | 10,873,973        | —                              | —                 | 267,614                        | 10,873,973        |
| Tombigbee Electric Coop Inc.....    | —                     | —                              | —                 | —                              | —                 | 123,766                        | 4,483,283         |
| Wiregrass Electric Coop Inc.....    | —                     | 258,061                        | 11,245,934        | —                              | —                 | 258,061                        | 11,245,934        |
| <b>Alaska</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Copper Valley Elec Assn Inc.....    | —                     | —                              | —                 | —                              | —                 | 38,453                         | 2,460,972         |
| Golden Valley Elec Assn Inc.....    | 259,915               | 299,513                        | 9,491,391         | 1,437                          | 39,379            | 308,801                        | 9,790,685         |
| Homer Electric Assn Inc.....        | —                     | 456,906                        | 19,681,637        | —                              | 3                 | 456,906                        | 19,681,640        |
| Kodiak Electric Assn Inc.....       | —                     | —                              | —                 | —                              | —                 | 103,738                        | 6,639,208         |
| <b>Arizona</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Duncan Valley Elec Coop Inc.....    | —                     | 1,721,767                      | 61,523,835        | —                              | —                 | 1,721,767                      | 61,523,835        |
| Mohave Electric Coop Inc.....       | —                     | 584,117                        | 27,842,633        | —                              | —                 | 588,144                        | 28,046,742        |
| Navapache Electric Coop Inc.....    | —                     | 286,735                        | 17,108,280        | —                              | —                 | 286,735                        | 17,108,280        |
| Sulphur Springs Valley E C Inc..... | —                     | 481,732                        | 24,055,675        | —                              | —                 | 481,732                        | 24,055,675        |
| Trico Electric Coop Inc.....        | —                     | 303,920                        | 15,133,847        | —                              | —                 | 303,920                        | 15,133,847        |
| <b>Arkansas</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Arkansas Valley Elec Coop Corp..... | —                     | 192,797                        | 8,129,540         | —                              | —                 | 858,860                        | 28,276,818        |
| Ashley Chicot Elec Coop Inc.....    | —                     | 74,319                         | 2,960,024         | —                              | —                 | 74,319                         | 2,960,024         |
| C & L Electric Coop Corp.....       | —                     | 280,414                        | 11,479,849        | —                              | —                 | 280,414                        | 11,479,849        |
| Carroll Electric Coop Corp.....     | —                     | 1,054,912                      | 40,679,816        | —                              | —                 | 1,054,912                      | 40,679,816        |
| Clay County Electric Coop Corp..... | —                     | 173,801                        | 6,755,550         | —                              | —                 | 173,801                        | 6,755,550         |
| Craighead Electric Coop Corp.....   | —                     | 364,432                        | 14,832,752        | —                              | —                 | 364,432                        | 14,832,752        |
| Farmers Electric Coop Corp.....     | —                     | —                              | —                 | 72,999                         | 3,396,323         | 72,999                         | 3,396,323         |
| First Electric Coop Corp.....       | —                     | 1,257,358                      | 49,092,502        | —                              | —                 | 1,257,358                      | 49,092,502        |
| Mississippi Cnty Elec Coop Inc..... | —                     | 2,684,916                      | 69,911,396        | —                              | —                 | 2,684,916                      | 69,911,396        |
| North Arkansas Elec Coop Inc.....   | —                     | 485,079                        | 18,835,489        | —                              | —                 | 492,298                        | 19,168,659        |
| Ouachita Electric Coop Corp.....    | —                     | 197,334                        | 7,473,414         | —                              | —                 | 197,334                        | 7,473,414         |
| Ozarks Electric Coop Corp.....      | —                     | 790,213                        | 31,644,033        | —                              | —                 | 790,213                        | 31,644,033        |
| Petit Jean Electric Coop Corp.....  | —                     | 230,677                        | 9,238,252         | —                              | —                 | 230,677                        | 9,238,252         |
| Rich Mountain Elec Coop Inc.....    | —                     | 101,251                        | 4,084,795         | —                              | —                 | 101,251                        | 4,084,795         |
| South Central Ark El Coop Inc.....  | —                     | 218,913                        | 7,621,431         | —                              | —                 | 218,913                        | 7,621,431         |
| Southwest Arkansas E C C.....       | —                     | 511,005                        | 18,474,696        | —                              | —                 | 511,005                        | 18,474,696        |
| Woodruff Electric Coop Corp.....    | —                     | 316,454                        | 11,653,715        | —                              | —                 | 316,454                        | 11,653,715        |
| <b>California</b>                   |                       |                                |                   |                                |                   |                                |                   |
| Anza Electric Coop Inc.....         | —                     | 37,570                         | 1,862,067         | —                              | —                 | 37,570                         | 1,862,067         |
| Plumas-Sierra Rural Elec Coop.....  | —                     | —                              | —                 | 268                            | 6,020             | 122,002                        | 3,130,095         |
| Surprise Valley Electric Coop.....  | —                     | —                              | —                 | —                              | —                 | 122,942                        | 3,090,846         |
| <b>Colorado</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Delta Montrose Electric Assn.....   | —                     | 453,205                        | 17,847,771        | —                              | —                 | 453,205                        | 17,847,771        |
| Empire Electric Assn Inc.....       | —                     | 386,388                        | 12,583,118        | —                              | —                 | 386,388                        | 12,583,118        |
| Grand Valley Rrl Pwr Line Inc.....  | —                     | —                              | —                 | —                              | —                 | 117,913                        | 4,852,136         |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|--------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                      | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                      | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Colorado</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Highline Electric Assn.....          | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Holy Cross Electric Assn Inc.....    | 235,422                        | 19,254,185        | 44,275                         | 807,493           | —                              | —                 | —                              |
| K C Electric Assn.....               | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| La Plata Electric Assn Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Morgan County Rural Elec Assn.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Mountain Parks Electric Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Mountain View Elec Assn Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Poudre Valley R E A Inc.....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| San Isabel Electric Assn Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| San Luis Valley R E C Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| San Miguel Power Assn Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sangre De Cristo Elec Assn Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southeast Colorado Power Assn.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| United Power Inc.....                | 311                            | 22,827            | —                              | —                 | —                              | —                 | —                              |
| White River Electric Assn Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Y-W Electric Assn Inc.....           | —                              | —                 | —                              | —                 | —                              | —                 | 10                             |
| Yampa Valley Electric Assn Inc.....  | 401,910                        | 15,856,595        | 26,232                         | 458,672           | —                              | —                 | —                              |
| <b>Delaware</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Delaware Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Florida</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Central Florida Elec Coop Inc.....   | —                              | —                 | 10,856                         | 306,594           | —                              | —                 | —                              |
| Choctawhatche Elec Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Clay Electric Coop Inc.....          | —                              | —                 | —                              | —                 | —                              | —                 | 1,941                          |
| Escambia River Elec Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Glades Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Gulf Coast Electric Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Peace River Electric Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sumter Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Suwannee Valley Elec Coop Inc.....   | —                              | —                 | 22,001                         | 629,897           | —                              | —                 | —                              |
| Talquin Electric Coop Inc.....       | —                              | —                 | 64,841                         | 1,816,435         | —                              | —                 | 12,508                         |
| Tri-County Electric Coop Inc.....    | —                              | —                 | 24,681                         | 695,263           | —                              | —                 | —                              |
| West Florida El Coop Assn Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Withlacoochee River Elec Coop.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Georgia</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Altamaha Electric Member Corp.....   | —                              | —                 | 17,017                         | 466,668           | —                              | —                 | —                              |
| Amicalola Electric Member Corp.....  | —                              | —                 | 18,023                         | 495,024           | —                              | —                 | —                              |
| Blue Ridge Mountain E M C.....       | —                              | —                 | 399,392                        | 17,748,987        | —                              | —                 | —                              |
| Canoochee Electric Member Corp.....  | —                              | —                 | —                              | 397,309           | —                              | —                 | —                              |
| Carroll Electric Member Corp.....    | 11                             | 1,169             | 27,624                         | 729,885           | —                              | —                 | —                              |
| Central Georgia El Member Corp.....  | —                              | —                 | 20,751                         | 564,711           | —                              | —                 | —                              |
| Coastal Electric Member Corp.....    | —                              | —                 | 4,987                          | 131,778           | —                              | —                 | —                              |
| Colquitt Electric Members Corp.....  | —                              | —                 | 60,861                         | 1,657,056         | —                              | —                 | —                              |
| Coweta-Fayette El Member Corp.....   | —                              | —                 | 21,107                         | 557,686           | —                              | —                 | —                              |
| Excelsior Electric Member Corp.....  | —                              | —                 | 14,412                         | 380,787           | —                              | —                 | —                              |
| Flint Electric Membership Corp.....  | —                              | —                 | 88,244                         | 2,401,805         | —                              | —                 | —                              |
| Grady County Elec Member Corp.....   | —                              | —                 | 16,408                         | 450,339           | —                              | —                 | —                              |
| GreyStone Power Corp.....            | —                              | —                 | 48,548                         | 1,321,148         | —                              | —                 | —                              |
| Habersham Electric Member Corp.....  | —                              | —                 | 16,100                         | 437,827           | —                              | —                 | —                              |
| Hart Electric Member Corp.....       | —                              | —                 | 30,660                         | 810,086           | —                              | —                 | —                              |
| Irwin Electric Membership Corp.....  | —                              | —                 | 13,550                         | 361,135           | —                              | —                 | —                              |
| Jackson Electric Member Corp.....    | —                              | —                 | 77,753                         | 2,054,472         | —                              | —                 | —                              |
| Jefferson Electric Member Corp.....  | —                              | —                 | 21,646                         | 594,230           | —                              | —                 | —                              |
| Lamar Electric Membership Corp.....  | —                              | —                 | 10,962                         | 289,624           | —                              | —                 | —                              |
| Little Ocmulgee El Member Corp.....  | —                              | —                 | 12,811                         | 338,476           | —                              | —                 | —                              |
| Middle Georgia El Member Corp.....   | —                              | —                 | 9,850                          | 260,261           | —                              | —                 | —                              |
| North Georgia Elec Member Corp.....  | —                              | —                 | 2,271,205                      | 94,497,781        | —                              | —                 | —                              |
| Ocmulgee Electric Member Corp.....   | —                              | —                 | 13,436                         | 355,009           | —                              | —                 | —                              |
| Oconee Electric Member Corp.....     | —                              | —                 | 12,551                         | 341,625           | —                              | —                 | —                              |
| Okefenokee Rural El Member Corp..... | —                              | —                 | 15,399                         | 406,865           | —                              | —                 | —                              |
| Pataula Electric Member Corp.....    | —                              | —                 | 5,285                          | 139,627           | —                              | —                 | —                              |
| Planters Electric Member Corp.....   | —                              | —                 | 16,714                         | 442,479           | —                              | —                 | —                              |

See notes and footnotes at end of table.



**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower     | Source of Electricity |                                |                   |                                |                   |                                |                   |
|-------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                     | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                     | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Colorado</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Highline Electric Assn.....         | —                     | 266,551                        | 11,984,213        | 1                              | 16                | 266,552                        | 11,984,229        |
| Holy Cross Electric Assn Inc.....   | —                     | —                              | —                 | 482,511                        | 5,468,035         | 762,208                        | 25,529,713        |
| K C Electric Assn.....              | —                     | 177,732                        | 7,070,584         | —                              | —                 | 177,732                        | 7,070,584         |
| La Plata Electric Assn Inc.....     | —                     | 654,591                        | 24,814,790        | —                              | —                 | 654,591                        | 24,814,790        |
| Morgan County Rural Elec Assn.....  | —                     | 187,749                        | 7,515,931         | —                              | —                 | 187,749                        | 7,515,931         |
| Mountain Parks Electric Inc.....    | —                     | 212,067                        | 7,805,037         | —                              | —                 | 212,067                        | 7,805,037         |
| Mountain View Elec Assn Inc.....    | —                     | 397,397                        | 16,201,510        | —                              | —                 | 397,397                        | 16,201,510        |
| Poudre Valley R E A Inc.....        | —                     | 630,458                        | 22,875,362        | —                              | —                 | 630,458                        | 22,875,362        |
| San Isabel Electric Assn Inc.....   | —                     | 260,560                        | 9,593,562         | 13                             | 1,511             | 260,573                        | 9,595,073         |
| San Luis Valley R E C Inc.....      | —                     | 212,368                        | 7,845,094         | —                              | —                 | 212,368                        | 7,845,094         |
| San Miguel Power Assn Inc.....      | —                     | 137,074                        | 5,455,746         | —                              | —                 | 137,074                        | 5,455,746         |
| Sangre De Cristo Elec Assn Inc..... | —                     | 75,123                         | 3,078,419         | —                              | —                 | 75,123                         | 3,078,419         |
| Southeast Colorado Power Assn.....  | —                     | 151,100                        | 5,992,915         | —                              | —                 | 151,100                        | 5,992,915         |
| United Power Inc.....               | —                     | 591,164                        | 22,997,698        | —                              | —                 | 591,475                        | 23,020,525        |
| White River Electric Assn Inc.....  | —                     | 103,046                        | 3,745,607         | —                              | —                 | 103,046                        | 3,745,607         |
| Y-W Electric Assn Inc.....          | 155                   | 287,677                        | 12,381,795        | —                              | —                 | 287,687                        | 12,381,950        |
| Yampa Valley Electric Assn Inc..... | —                     | —                              | —                 | —                              | —                 | 428,142                        | 16,315,267        |
| <b>Delaware</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Delaware Electric Coop Inc.....     | —                     | 717,678                        | 37,726,843        | —                              | —                 | 717,678                        | 37,726,843        |
| <b>Florida</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Central Florida Elec Coop Inc.....  | —                     | 326,691                        | 16,619,089        | —                              | 69,482            | 337,547                        | 16,995,165        |
| Choctawhatche Elec Coop Inc.....    | —                     | 460,561                        | 19,948,545        | —                              | —                 | 460,561                        | 19,948,545        |
| Clay Electric Coop Inc.....         | 131,198               | 2,119,888                      | 106,395,751       | —                              | —                 | 2,121,829                      | 106,526,949       |
| Escambia River Elec Coop Inc.....   | —                     | 144,844                        | 6,057,217         | —                              | —                 | 144,844                        | 6,057,217         |
| Glades Electric Coop Inc.....       | —                     | 266,416                        | 13,072,633        | —                              | —                 | 266,416                        | 13,072,633        |
| Gulf Coast Electric Coop Inc.....   | —                     | 220,934                        | 9,154,257         | —                              | —                 | 220,934                        | 9,154,257         |
| Peace River Electric Coop Inc.....  | —                     | 317,583                        | 17,066,815        | —                              | —                 | 317,583                        | 17,066,815        |
| Sumter Electric Coop Inc.....       | —                     | 1,315,460                      | 68,403,582        | —                              | —                 | 1,315,460                      | 68,403,582        |
| Suwannee Valley Elec Coop Inc.....  | —                     | 254,799                        | 12,928,718        | —                              | —                 | 276,800                        | 13,558,615        |
| Talquin Electric Coop Inc.....      | 844,576               | 719,303                        | 37,343,631        | —                              | —                 | 796,652                        | 40,004,642        |
| Tri-County Electric Coop Inc.....   | —                     | 160,040                        | 7,625,836         | —                              | —                 | 184,721                        | 8,321,099         |
| West Florida El Coop Assn Inc.....  | —                     | 327,069                        | 14,082,154        | —                              | —                 | 327,069                        | 14,082,154        |
| Withlacoochee River Elec Coop.....  | —                     | 2,467,240                      | 127,349,291       | —                              | —                 | 2,467,240                      | 127,349,291       |
| <b>Georgia</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Altamaha Electric Member Corp.....  | —                     | 355,193                        | 14,801,929        | —                              | —                 | 372,210                        | 15,268,597        |
| Amicalola Electric Member Corp..... | —                     | 339,428                        | 16,612,462        | —                              | —                 | 357,451                        | 17,107,486        |
| Blue Ridge Mountain E M C.....      | —                     | —                              | —                 | —                              | —                 | 399,392                        | 17,748,987        |
| Canoochee Electric Member Corp..... | —                     | —                              | 13,066,317        | —                              | —                 | —                              | 13,463,626        |
| Carroll Electric Member Corp.....   | —                     | 598,561                        | 27,695,139        | —                              | —                 | 626,196                        | 28,426,193        |
| Central Georgia El Member Corp..... | —                     | 464,632                        | 23,583,604        | —                              | —                 | 485,383                        | 24,148,315        |
| Coastal Electric Member Corp.....   | —                     | 185,440                        | 8,962,043         | —                              | —                 | 190,427                        | 9,093,821         |
| Colquitt Electric Members Corp..... | —                     | 781,029                        | 37,009,949        | —                              | —                 | 841,890                        | 38,667,005        |
| Coweta-Fayette El Member Corp.....  | —                     | 767,062                        | 42,201,094        | —                              | —                 | 788,169                        | 42,758,780        |
| Excelsior Electric Member Corp..... | —                     | 253,568                        | 12,614,112        | —                              | —                 | 267,980                        | 12,994,899        |
| Flint Electric Membership Corp..... | —                     | 1,021,276                      | 50,237,966        | —                              | —                 | 1,109,520                      | 52,639,771        |
| Grady County Elec Member Corp.....  | —                     | 206,787                        | 11,012,121        | —                              | —                 | 223,195                        | 11,462,460        |
| GreyStone Power Corp.....           | —                     | 1,117,802                      | 59,106,153        | 83                             | 2,069             | 1,166,433                      | 60,429,370        |
| Habersham Electric Member Corp..... | —                     | 305,728                        | 14,894,998        | —                              | —                 | 321,828                        | 15,332,825        |
| Hart Electric Member Corp.....      | —                     | 378,786                        | 19,099,196        | —                              | —                 | 409,446                        | 19,909,282        |
| Irwin Electric Membership Corp..... | —                     | 141,307                        | 6,976,404         | —                              | —                 | 154,857                        | 7,337,539         |
| Jackson Electric Member Corp.....   | —                     | 2,485,902                      | 125,598,374       | —                              | —                 | 2,563,655                      | 127,652,846       |
| Jefferson Electric Member Corp..... | —                     | 394,736                        | 21,545,801        | —                              | —                 | 416,382                        | 22,140,031        |
| Lamar Electric Membership Corp..... | —                     | 206,591                        | 10,853,391        | —                              | —                 | 217,553                        | 11,143,015        |
| Little Ocmulgee El Member Corp..... | —                     | 114,247                        | 5,623,749         | —                              | —                 | 127,058                        | 5,962,225         |
| Middle Georgia El Member Corp.....  | —                     | 87,257                         | 3,896,083         | —                              | —                 | 97,107                         | 4,156,344         |
| North Georgia Elec Member Corp..... | —                     | —                              | —                 | 5                              | 404               | 2,271,210                      | 94,498,185        |
| Ocmulgee Electric Member Corp.....  | —                     | 126,633                        | 6,286,839         | —                              | —                 | 140,069                        | 6,641,848         |
| Oconee Electric Member Corp.....    | —                     | 219,514                        | 9,829,239         | —                              | —                 | 232,065                        | 10,170,864        |
| Okefenoke Rural El Member Corp..... | —                     | 371,050                        | 19,010,526        | —                              | —                 | 386,449                        | 19,417,391        |
| Pataula Electric Member Corp.....   | —                     | 64,462                         | 2,853,504         | —                              | —                 | 69,747                         | 2,993,131         |
| Planters Electric Member Corp.....  | —                     | 185,932                        | 9,213,709         | —                              | —                 | 202,646                        | 9,656,188         |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower     | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|-------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                     | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Georgia</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Rayle Electric Membership Corp..... | —                              | —                 | 16,372                         | 447,481           | —                              | —                 | —                              |
| Satilla Rural Elec Member Corp..... | —                              | —                 | 49,586                         | 1,310,149         | —                              | —                 | —                              |
| Sawnee Electric Members Corp.....   | —                              | —                 | 31,200                         | 824,342           | —                              | —                 | —                              |
| Slash Pine Elec Member Corp.....    | —                              | —                 | 7,536                          | 206,407           | —                              | —                 | —                              |
| Sumter Electric Member Corp.....    | —                              | —                 | 18,405                         | 486,049           | —                              | —                 | —                              |
| Three Notch Elec Member Corp.....   | —                              | —                 | 19,128                         | 526,914           | —                              | —                 | —                              |
| Tri-County Elec Member Corp.....    | 149                            | 14,006            | 10,149                         | 268,062           | —                              | —                 | —                              |
| Tri-State Electric Member Corp..... | —                              | —                 | 215,009                        | 9,437,467         | —                              | —                 | —                              |
| Upson County Elec Member Corp.....  | —                              | —                 | 7,228                          | 196,523           | —                              | —                 | —                              |
| Washington Elec Member Corp.....    | —                              | —                 | 22,425                         | 610,753           | —                              | —                 | —                              |
| <b>Idaho</b>                        |                                |                   |                                |                   |                                |                   |                                |
| Clearwater Power Co.....            | —                              | —                 | —                              | —                 | 179,002                        | 4,577,209         | —                              |
| Idaho Cnty L&P Coop Assn Inc.....   | —                              | —                 | 43,659                         | 1,145,757         | —                              | —                 | —                              |
| Kootenai Electric Coop Inc.....     | —                              | —                 | 293,940                        | 7,355,259         | —                              | —                 | —                              |
| Lost River Electric Coop Inc.....   | —                              | —                 | 52,312                         | 1,467,352         | —                              | —                 | —                              |
| Northern Lights Inc.....            | —                              | —                 | 211,842                        | 5,226,205         | —                              | —                 | —                              |
| Raft River Rural Elec Coop Inc..... | —                              | —                 | 193,495                        | 4,891,213         | —                              | —                 | —                              |
| Salmon River Electric Coop Inc..... | —                              | —                 | 279,875                        | 7,328,605         | —                              | —                 | —                              |
| <b>Illinois</b>                     |                                |                   |                                |                   |                                |                   |                                |
| Adams Electrical Coop.....          | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Clay Electric Coop Inc.....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Clinton County Elec Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Coles-Moultrie Electric Coop.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Eastern Illini Electric Coop.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Egyptian Electric Coop Assn.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Farmers Mutual Electric Co.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Illinois Rural Electric Co.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Jo-Carroll Electric Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| M J M Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| McDonough Power Coop.....           | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Menard Electric Coop.....           | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Monroe County Elec Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Rural Electric Conven Coop.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southeastern IL Elec Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southern Illinois Elec Coop.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southwestern Electric Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Spoon River Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Wayne-White Counties Elec Coop..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Western Illinois Elec Coop.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Indiana</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Daviess Martin County R E M C.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Decatur County Rural E M C.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Dubois Rural Electric Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Fulton County Rural E M C.....      | 82,279                         | 3,451,776         | —                              | —                 | —                              | —                 | —                              |
| Harrison County Rural E M C.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Jackson County Rural E M C.....     | 375,712                        | 14,573,247        | —                              | —                 | —                              | —                 | —                              |
| Jasper County Rural E M C.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Jay County Rural E M C.....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Johnson County Rural E M C.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Kankakee Valley Rural E M C.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Knox County Rural E M C.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lagrange County Rural E M C.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Marshall County Rural E M C.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Newton County Rural E M C.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Northeastern Rural E M C.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Orange County Rural E M C.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Parke County Rural E M C.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Rush County Rural E M C.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Shelby County Rural E M C.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| South Central Indiana REMC.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southeastern Indiana R E M C.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower     | Source of Electricity |                                |                   |                                |                   |                                |                   |
|-------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                     | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                     | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Georgia</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Rayle Electric Membership Corp..... | —                     | 175,622                        | 8,555,655         | —                              | —                 | 191,994                        | 9,003,136         |
| Satilla Rural Elec Member Corp..... | —                     | 612,694                        | 31,046,970        | —                              | —                 | 662,280                        | 32,357,119        |
| Sawnee Electric Members Corp.....   | —                     | 1,297,788                      | 71,335,008        | —                              | —                 | 1,328,988                      | 72,159,350        |
| Slash Pine Elec Member Corp.....    | —                     | 104,922                        | 4,952,242         | —                              | —                 | 112,458                        | 5,158,649         |
| Sumter Electric Member Corp.....    | —                     | 247,608                        | 11,825,258        | —                              | —                 | 266,013                        | 12,311,307        |
| Three Notch Elec Member Corp.....   | —                     | 173,263                        | 8,057,805         | —                              | —                 | 192,391                        | 8,584,719         |
| Tri-County Elec Member Corp.....    | —                     | 211,876                        | 11,050,380        | —                              | —                 | 222,174                        | 11,332,448        |
| Tri-State Electric Member Corp..... | —                     | —                              | —                 | —                              | —                 | 215,009                        | 9,437,467         |
| Upson County Elec Member Corp.....  | —                     | 93,766                         | 5,151,613         | —                              | —                 | 100,994                        | 5,348,136         |
| Washington Elec Member Corp.....    | —                     | 304,597                        | 12,860,680        | —                              | —                 | 327,022                        | 13,471,433        |
| <b>Idaho</b>                        |                       |                                |                   |                                |                   |                                |                   |
| Clearwater Power Co.....            | —                     | —                              | —                 | —                              | —                 | 179,002                        | 4,577,209         |
| Idaho Cnty L&P Coop Assn Inc.....   | —                     | —                              | —                 | 2,253                          | 43,016            | 45,912                         | 1,188,773         |
| Kootenai Electric Coop Inc.....     | —                     | —                              | —                 | —                              | —                 | 293,940                        | 7,355,259         |
| Lost River Electric Coop Inc.....   | —                     | 11,054                         | 293,273           | —                              | —                 | 63,366                         | 1,760,625         |
| Northern Lights Inc.....            | —                     | 16,417                         | 545,836           | —                              | 304,905           | 228,259                        | 6,076,946         |
| Raft River Rural Elec Coop Inc..... | —                     | 12,855                         | 184,987           | —                              | —                 | 206,350                        | 5,076,200         |
| Salmon River Electric Coop Inc..... | —                     | —                              | —                 | —                              | —                 | 279,875                        | 7,328,605         |
| <b>Illinois</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Adams Electrical Coop.....          | —                     | 101,735                        | 7,244,988         | —                              | —                 | 101,735                        | 7,244,988         |
| Clay Electric Coop Inc.....         | —                     | 36,658                         | 2,678,724         | —                              | —                 | 36,658                         | 2,678,724         |
| Clinton County Elec Coop Inc.....   | —                     | 109,022                        | 6,596,729         | —                              | —                 | 109,022                        | 6,596,729         |
| Coles-Moultrie Electric Coop.....   | —                     | 164,644                        | 9,703,614         | —                              | —                 | 164,644                        | 9,703,614         |
| Eastern Illini Electric Coop.....   | —                     | 206,830                        | 13,058,382        | —                              | —                 | 206,830                        | 13,058,382        |
| Egyptian Electric Coop Assn.....    | —                     | 245,136                        | 10,117,894        | —                              | —                 | 245,136                        | 10,117,894        |
| Farmers Mutual Electric Co.....     | —                     | 17,074                         | 1,366,884         | —                              | —                 | 17,074                         | 1,366,884         |
| Illinois Rural Electric Co.....     | —                     | 120,047                        | 8,392,970         | —                              | —                 | 120,047                        | 8,392,970         |
| Jo-Carroll Electric Coop Inc.....   | —                     | 78,869                         | 2,993,771         | —                              | —                 | 78,869                         | 2,993,771         |
| M J M Electric Coop Inc.....        | —                     | 105,769                        | 7,541,109         | —                              | —                 | 105,769                        | 7,541,109         |
| McDonough Power Coop.....           | —                     | 70,916                         | 4,890,574         | —                              | —                 | 70,916                         | 4,890,574         |
| Menard Electric Coop.....           | —                     | 160,827                        | 9,596,929         | —                              | 1,621             | 160,827                        | 9,598,550         |
| Monroe County Elec Coop Inc.....    | —                     | 76,315                         | 5,307,661         | —                              | —                 | 76,315                         | 5,307,661         |
| Rural Electric Conven Coop.....     | —                     | 86,242                         | 5,983,138         | —                              | —                 | 86,242                         | 5,983,138         |
| Southeastern IL Elec Coop Inc.....  | —                     | 592,974                        | 23,461,887        | —                              | —                 | 592,974                        | 23,461,887        |
| Southern Illinois Elec Coop.....    | —                     | 173,864                        | 7,090,373         | —                              | —                 | 173,864                        | 7,090,373         |
| Southwestern Electric Coop Inc..... | —                     | 300,680                        | 20,120,045        | —                              | —                 | 300,680                        | 20,120,045        |
| Spoon River Electric Coop Inc.....  | —                     | 52,267                         | 3,571,022         | —                              | —                 | 52,267                         | 3,571,022         |
| Wayne-White Counties Elec Coop..... | —                     | 323,431                        | 17,549,699        | —                              | —                 | 323,431                        | 17,549,699        |
| Western Illinois Elec Coop.....     | —                     | 39,269                         | 2,855,032         | —                              | —                 | 39,269                         | 2,855,032         |
| <b>Indiana</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Daviess Martin County R E M C.....  | —                     | 132,597                        | 5,044,023         | —                              | —                 | 132,597                        | 5,044,023         |
| Decatur County Rural E M C.....     | —                     | 236,943                        | 8,328,417         | —                              | —                 | 236,943                        | 8,328,417         |
| Dubois Rural Electric Coop Inc..... | —                     | 216,173                        | 8,207,023         | —                              | —                 | 216,173                        | 8,207,023         |
| Fulton County Rural E M C.....      | —                     | —                              | —                 | —                              | -68,098           | 82,279                         | 3,383,678         |
| Harrison County Rural E M C.....    | —                     | 376,653                        | 14,653,020        | —                              | —                 | 376,653                        | 14,653,020        |
| Jackson County Rural E M C.....     | —                     | —                              | —                 | —                              | —                 | 375,712                        | 14,573,247        |
| Jasper County Rural E M C.....      | —                     | 118,152                        | 4,807,644         | —                              | —                 | 118,152                        | 4,807,644         |
| Jay County Rural E M C.....         | —                     | 99,016                         | 3,896,684         | —                              | —                 | 99,016                         | 3,896,684         |
| Johnson County Rural E M C.....     | —                     | 228,258                        | 8,939,974         | —                              | —                 | 228,258                        | 8,939,974         |
| Kankakee Valley Rural E M C.....    | —                     | 194,328                        | 8,136,736         | —                              | —                 | 194,328                        | 8,136,736         |
| Knox County Rural E M C.....        | —                     | 213,517                        | 7,970,721         | —                              | —                 | 213,517                        | 7,970,721         |
| Lagrange County Rural E M C.....    | —                     | 89,384                         | 3,642,475         | —                              | -138,734          | 89,384                         | 3,503,741         |
| Marshall County Rural E M C.....    | —                     | 80,056                         | 3,442,873         | —                              | —                 | 80,056                         | 3,442,873         |
| Newton County Rural E M C.....      | —                     | 25,488                         | 1,062,004         | —                              | —                 | 25,488                         | 1,062,004         |
| Northeastern Rural E M C.....       | —                     | 410,111                        | 15,613,828        | —                              | —                 | 410,111                        | 15,613,828        |
| Orange County Rural E M C.....      | —                     | 92,223                         | 3,635,355         | —                              | —                 | 92,223                         | 3,635,355         |
| Parke County Rural E M C.....       | —                     | 177,137                        | 7,058,822         | —                              | —                 | 177,137                        | 7,058,822         |
| Rush County Rural E M C.....        | —                     | 80,818                         | 3,049,240         | —                              | —                 | 80,818                         | 3,049,240         |
| Shelby County Rural E M C.....      | —                     | 152,596                        | 5,900,945         | —                              | —                 | 152,596                        | 5,900,945         |
| South Central Indiana REMC.....     | —                     | 424,561                        | 16,841,329        | —                              | 186,256           | 424,561                        | 17,027,585        |
| Southeastern Indiana R E M C.....   | —                     | 363,401                        | 14,252,927        | —                              | —                 | 363,401                        | 14,252,927        |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower     | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|-------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                     | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Indiana</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Southern Indiana R E C Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sullivan County Rural E M C.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tipmont Rural Elec Member Corp..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| United Rural Elec Member Corp.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Utilities Dist-Western IN REMC..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Wabash County Rural E M C.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| White County Rural E M C.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Whitewater Valley Rural EMC.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Iowa</b>                         |                                |                   |                                |                   |                                |                   |                                |
| Adams County Coop Electric Co.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Allamakee-Clayton El Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Butler County Rural Elec Coop.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Calhoun County Elec Coop Assn.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Cedar Valley Electric Coop.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Chariton Valley Elec Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Clarke Electric Coop Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| East-Central Iowa Rrl El Coop.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Eastern Iowa Light&Power Coop.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Farmers Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Franklin Rural Electric Coop.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Glidden Rural Electric Coop.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Grundy County Rural Elec Coop.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Guthrie County Rural E C A.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Hancock County Rural Elec Coop..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Harrison County Rrl Elec Coop.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Hawkeye Tri-County El Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Humboldt County R E C.....          | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Ida County Rural Electric Coop..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Iowa Lakes Electric Coop.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Linn County Rural E C A.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lyon Rural Electric Coop.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Maquoketa Valley Rrl Elec Coop..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Marshall County Rrl Elec Coop.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Midland Power Coop.....             | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Monona County Rural Elec Coop.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Nyman Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Osceola Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Pella Coop Elec Assn.....           | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Plymouth Electric Coop Assn.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Rideta Electric Coop Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| S E Iowa Coop Electric Assn.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sac County Rural Electric Coop..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| South Crawford Rural Elec Coop..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southern Iowa Elec Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| T I P Rural Electric Coop.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Winnebago Rural Elec Coop Assn..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Woodbury County Rural E C A.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Wright County Rural Elec Coop.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Kansas</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Ark Valley Elec Coop Assn Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Brown-Atchison E C A Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Butler Rural El Coop Assn Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| C & W Rural Elec Coop Assn Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Caney Valley El Coop Assn Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| CMS Electric Coop Inc.....          | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| D S & O Rural E C A Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Doniphan Elec Coop Assn Inc.....    | 17,629                         | 616,371           | —                              | —                 | —                              | —                 | —                              |
| Flint Hills Rural E C A Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Jewell-Mitchell Coop Elec Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Kaw Valley Electric Coop Inc.....   | 112,153                        | 3,892,089         | —                              | —                 | —                              | —                 | —                              |
| Lane-Scott Electric Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Leavenworth-Jefferson E C Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower     | Source of Electricity |                                |                   |                                |                   |                                |                   |
|-------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                     | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                     | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Indiana</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Southern Indiana R E C Inc.....     | —                     | 133,936                        | 5,151,866         | —                              | —                 | 133,936                        | 5,151,866         |
| Sullivan County Rural E M C.....    | —                     | 129,816                        | 4,995,655         | —                              | —                 | 129,816                        | 4,995,655         |
| Tipmont Rural Elec Member Corp..... | —                     | 287,056                        | 11,889,279        | —                              | —                 | 287,056                        | 11,889,279        |
| United Rural Elec Member Corp.....  | —                     | 402,320                        | 14,844,311        | —                              | —                 | 402,320                        | 14,844,311        |
| Utilities Dist-Western IN REMC..... | —                     | 274,943                        | 10,731,362        | —                              | —                 | 274,943                        | 10,731,362        |
| Wabash County Rural E M C.....      | —                     | 133,671                        | 5,150,603         | —                              | —                 | 133,671                        | 5,150,603         |
| White County Rural E M C.....       | —                     | 105,847                        | 4,177,040         | —                              | —                 | 105,847                        | 4,177,040         |
| Whitewater Valley Rural EMC.....    | —                     | 178,556                        | 6,864,029         | —                              | —                 | 178,556                        | 6,864,029         |
| <b>Iowa</b>                         |                       |                                |                   |                                |                   |                                |                   |
| Adams County Coop Electric Co.....  | —                     | 29,013                         | 1,368,718         | —                              | —                 | 29,013                         | 1,368,718         |
| Allamakee-Clayton El Coop Inc.....  | —                     | 124,691                        | 5,096,613         | —                              | —                 | 124,691                        | 5,096,613         |
| Butler County Rural Elec Coop.....  | —                     | 111,075                        | 5,124,635         | 3                              | 223               | 111,078                        | 5,124,858         |
| Calhoun County Elec Coop Assn.....  | —                     | 30,245                         | 1,435,546         | —                              | —                 | 30,245                         | 1,435,546         |
| Cedar Valley Electric Coop.....     | —                     | 6,553                          | 2,462,654         | —                              | —                 | 6,553                          | 2,462,654         |
| Chariton Valley Elec Coop Inc.....  | —                     | 75,139                         | 2,521,592         | —                              | —                 | 75,139                         | 2,521,592         |
| Clarke Electric Coop Inc.....       | —                     | 57,295                         | 2,798,452         | —                              | —                 | 57,295                         | 2,798,452         |
| East-Central Iowa Rrl El Coop.....  | —                     | 155,562                        | 7,384,867         | —                              | —                 | 155,562                        | 7,384,867         |
| Eastern Iowa Light&Power Coop.....  | —                     | 360,338                        | 20,071,486        | —                              | —                 | 360,338                        | 20,071,486        |
| Farmers Electric Coop Inc.....      | —                     | 107,561                        | 4,777,824         | —                              | —                 | 107,561                        | 4,777,824         |
| Franklin Rural Electric Coop.....   | —                     | 40,325                         | 1,884,748         | —                              | —                 | 40,325                         | 1,884,748         |
| Glidden Rural Electric Coop.....    | —                     | 39,165                         | 1,796,453         | —                              | —                 | 39,165                         | 1,796,453         |
| Grundy County Rural Elec Coop.....  | —                     | 49,047                         | 2,315,291         | —                              | —                 | 49,047                         | 2,315,291         |
| Guthrie County Rural E C A.....     | —                     | 78,282                         | 3,623,473         | —                              | —                 | 78,282                         | 3,623,473         |
| Hancock County Rural Elec Coop..... | —                     | 47,131                         | 2,211,922         | —                              | —                 | 47,131                         | 2,211,922         |
| Harrison County Rrl Elec Coop.....  | —                     | 52,060                         | 1,897,946         | —                              | —                 | 52,060                         | 1,897,946         |
| Hawkeye Tri-County El Coop Inc..... | —                     | 126,325                        | 5,005,505         | —                              | —                 | 126,325                        | 5,005,505         |
| Humboldt County R E C.....          | —                     | 45,628                         | 2,013,523         | —                              | —                 | 45,628                         | 2,013,523         |
| Ida County Rural Electric Coop..... | —                     | 37,478                         | 1,349,870         | —                              | —                 | 37,478                         | 1,349,870         |
| Iowa Lakes Electric Coop.....       | —                     | 266,480                        | 11,213,183        | —                              | —                 | 266,480                        | 11,213,183        |
| Linn County Rural E C A.....        | —                     | 201,931                        | 10,428,935        | —                              | —                 | 201,931                        | 10,428,935        |
| Lyon Rural Electric Coop.....       | —                     | 60,513                         | 1,938,750         | —                              | —                 | 60,513                         | 1,938,750         |
| Maquoketa Valley Rrl Elec Coop..... | —                     | 234,473                        | 11,921,822        | —                              | —                 | 234,473                        | 11,921,822        |
| Marshall County Rrl Elec Coop.....  | —                     | 74,704                         | 3,720,370         | —                              | —                 | 74,704                         | 3,720,370         |
| Midland Power Coop.....             | —                     | 215,639                        | 9,553,081         | —                              | —                 | 215,639                        | 9,553,081         |
| Monona County Rural Elec Coop.....  | —                     | 39,431                         | 1,567,004         | —                              | —                 | 39,431                         | 1,567,004         |
| Nyman Electric Coop Inc.....        | —                     | 23,912                         | 1,121,676         | —                              | —                 | 23,912                         | 1,121,676         |
| Oseola Electric Coop Inc.....       | —                     | 28,538                         | 903,215           | —                              | —                 | 28,538                         | 903,215           |
| Pella Coop Elec Assn.....           | —                     | 43,035                         | 2,137,897         | —                              | —                 | 43,035                         | 2,137,897         |
| Plymouth Electric Coop Assn.....    | —                     | 75,295                         | 2,644,548         | —                              | —                 | 75,295                         | 2,644,548         |
| Rideta Electric Coop Inc.....       | —                     | 38,150                         | 1,735,720         | —                              | —                 | 38,150                         | 1,735,720         |
| S E Iowa Coop Electric Assn.....    | —                     | 181,920                        | 5,772,518         | 1                              | 55                | 181,921                        | 5,772,573         |
| Sac County Rural Electric Coop..... | —                     | 21,590                         | 987,804           | —                              | —                 | 21,590                         | 987,804           |
| South Crawford Rural Elec Coop..... | —                     | 74,421                         | 2,512,649         | —                              | —                 | 74,421                         | 2,512,649         |
| Southern Iowa Elec Coop Inc.....    | —                     | 101,448                        | 3,107,989         | —                              | —                 | 101,448                        | 3,107,989         |
| T I P Rural Electric Coop.....      | —                     | 106,583                        | 5,195,779         | —                              | —                 | 106,583                        | 5,195,779         |
| Winnebago Rural Elec Coop Assn..... | —                     | 38,042                         | 1,450,705         | —                              | —                 | 38,042                         | 1,450,705         |
| Woodbury County Rural E C A.....    | —                     | 55,705                         | 1,951,309         | —                              | —                 | 55,705                         | 1,951,309         |
| Wright County Rural Elec Coop.....  | —                     | 101,892                        | 3,806,460         | —                              | —                 | 101,892                        | 3,806,460         |
| <b>Kansas</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Ark Valley Elec Coop Assn Inc.....  | —                     | 76,576                         | 4,106,976         | 31                             | 740               | 76,607                         | 4,107,716         |
| Brown-Atchison E C A Inc.....       | —                     | —                              | —                 | 38,080                         | 2,082,881         | 38,080                         | 2,082,881         |
| Butler Rural El Coop Assn Inc.....  | —                     | 95,413                         | 5,201,172         | 7                              | 1,118             | 95,420                         | 5,202,290         |
| C & W Rural Elec Coop Assn Inc..... | —                     | 40,689                         | 2,144,294         | —                              | —                 | 40,689                         | 2,144,294         |
| Caney Valley El Coop Assn Inc.....  | —                     | 53,842                         | 2,936,566         | —                              | —                 | 53,842                         | 2,936,566         |
| CMS Electric Coop Inc.....          | —                     | 103,390                        | 4,740,521         | —                              | —                 | 103,390                        | 4,740,521         |
| D S & O Rural E C A Inc.....        | —                     | 98,237                         | 5,591,530         | —                              | —                 | 98,237                         | 5,591,530         |
| Doniphan Elec Coop Assn Inc.....    | —                     | —                              | —                 | —                              | —                 | 17,629                         | 616,371           |
| Flint Hills Rural E C A Inc.....    | —                     | 68,659                         | 3,910,683         | —                              | —                 | 68,659                         | 3,910,683         |
| Jewell-Mitchell Coop Elec Inc.....  | —                     | 49,544                         | 2,649,108         | —                              | —                 | 49,544                         | 2,649,108         |
| Kaw Valley Electric Coop Inc.....   | —                     | —                              | —                 | —                              | —                 | 112,153                        | 3,892,089         |
| Lane-Scott Electric Coop Inc.....   | —                     | 64,557                         | 4,108,234         | —                              | —                 | 64,557                         | 4,108,234         |
| Leavenworth-Jefferson E C Inc.....  | —                     | 76,784                         | 4,700,587         | —                              | —                 | 76,784                         | 4,700,587         |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|--------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                      | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                      | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Kansas</b>                        |                                |                   |                                |                   |                                |                   |                                |
| Lyon-Coffey Electric Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| N C K Electric Coop Inc.....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Nemaha-Marshall E C A Inc.....       | 45,894                         | 1,553,235         | —                              | —                 | —                              | —                 | —                              |
| Ninnescah Rural E C A Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Northwest Kansas E C A Inc .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Norton-Decatur Coop El Co Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| P R & W Electric Coop Assn Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Pioneer Electric Coop Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Radiant Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sedgwick Cnty El Coop Assn Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sekan Electric Coop Assn Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Smoky Hill Elec Coop Assn Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sumner-Cowley Elec Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Twin Valley Electric Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| United Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Victory Electric Coop Assn Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Western Coop Electric Assn Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Wheatland Electric Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Kentucky</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Big Sandy Rural Elec Coop Corp.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Blue Grass Rural El Coop Corp.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Clark Rural Electric Coop Corp.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Cumberland Valley Rural E C C .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Farmers Rural Elec Coop Corp.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Fleming-Mason Rural E C C .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Fox Creek Rural Elec Coop Corp.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Grayson Rural Elec Coop Corp .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Green River Electric Corp.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Harrison County Rural E C C .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Henderson-Union Elec Coop Corp.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Hickman-Fulton Counties RECC .....   | —                              | —                 | 128,491                        | 5,619,538         | —                              | —                 | —                              |
| Inter County Rural E C C .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Jackson County Rural E C C .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Jackson Purchase El Coop Corp .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Licking Valley Rural E C C.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Meade County Rural E C C.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Nolin Rural Electric Coop Corp.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Owen Electric Coop Inc .....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Pennyrite Rural Elec Coop Corp.....  | —                              | —                 | 919,276                        | 41,696,138        | —                              | —                 | —                              |
| Salt River Electric Coop Corp .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Shelby Rural Elec Coop Corp.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| South Kentucky Rural E C C.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Taylor County Rural E C C .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Warren Rural Elec Coop Corp.....     | —                              | —                 | 1,238,104                      | 52,193,002        | —                              | —                 | —                              |
| West Kentucky Rural E C C.....       | —                              | —                 | 822,948                        | 35,055,298        | —                              | —                 | —                              |
| <b>Louisiana</b>                     |                                |                   |                                |                   |                                |                   |                                |
| Claiborne Electric Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Concordia Electric Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Dixie Electric Membership Corp ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Jefferson Davis Elec Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Northeast Louisiana Power Coop.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Pointe Coupee Elec Member Corp.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| South Louisiana Elec Coop Assn.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southwest Louisiana E M C.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Teche Electric Coop Inc .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Valley Electric Member Corp .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Washington-St Tammany E C Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Maine</b>                         |                                |                   |                                |                   |                                |                   |                                |
| Eastern Maine Electric Coop.....     | 29,328                         | 1,409,884         | —                              | —                 | —                              | —                 | —                              |
| Fox Islands Electric Coop Inc .....  | 9,236                          | 405,920           | —                              | —                 | —                              | —                 | —                              |
| Swans Island Electric Coop Inc ..... | 2,379                          | 174,701           | —                              | —                 | —                              | —                 | —                              |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower     | Source of Electricity |                                |                   |                                |                   |                                |                   |
|-------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                     | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                     | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Kansas</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Lyon-Coffey Electric Coop Inc.....  | —                     | 92,584                         | 4,839,431         | —                              | 229               | 92,584                         | 4,839,660         |
| N C K Electric Coop Inc.....        | —                     | 33,418                         | 1,838,410         | —                              | —                 | 33,418                         | 1,838,410         |
| Nemaha-Marshall E C A Inc.....      | —                     | —                              | —                 | —                              | —                 | 45,894                         | 1,553,235         |
| Ninnescah Rural E C A Inc.....      | —                     | 66,552                         | 3,237,911         | 2                              | 54                | 66,554                         | 3,237,965         |
| Northwest Kansas E C A Inc.....     | —                     | 29,736                         | 1,901,298         | —                              | —                 | 29,736                         | 1,901,298         |
| Norton-Decatur Coop El Co Inc.....  | —                     | 105,516                        | 5,379,545         | 14                             | 170               | 105,530                        | 5,379,715         |
| P R & W Electric Coop Assn Inc..... | —                     | 36,026                         | 2,130,426         | —                              | —                 | 36,026                         | 2,130,426         |
| Pioneer Electric Coop Inc.....      | —                     | 305,845                        | 16,329,242        | 61                             | 726               | 305,906                        | 16,329,968        |
| Radiant Electric Coop Inc.....      | —                     | 44,611                         | 2,366,514         | —                              | —                 | 44,611                         | 2,366,514         |
| Sedgwick Cnty El Coop Assn Inc..... | —                     | 77,187                         | 4,626,668         | 3                              | 87                | 77,190                         | 4,626,755         |
| Sekan Electric Coop Assn Inc.....   | —                     | 53,790                         | 2,895,851         | —                              | —                 | 53,790                         | 2,895,851         |
| Smoky Hill Elec Coop Assn Inc.....  | —                     | 37,791                         | 1,960,035         | —                              | —                 | 37,791                         | 1,960,035         |
| Sumner-Cowley Elec Coop Inc.....    | —                     | 63,296                         | 3,504,847         | —                              | —                 | 63,296                         | 3,504,847         |
| Twin Valley Electric Coop Inc.....  | —                     | 26,248                         | 1,527,050         | —                              | —                 | 26,248                         | 1,527,050         |
| United Electric Coop Inc.....       | —                     | 62,356                         | 3,380,653         | 567                            | 14,564            | 62,923                         | 3,395,217         |
| Victory Electric Coop Assn Inc..... | —                     | 117,783                        | 5,709,371         | 4                              | 94                | 117,787                        | 5,709,465         |
| Western Coop Electric Assn Inc..... | —                     | 118,481                        | 7,120,740         | —                              | —                 | 118,481                        | 7,120,740         |
| Wheatland Electric Coop Inc.....    | —                     | 662,985                        | 35,887,469        | 28                             | 312               | 663,013                        | 35,887,781        |
| <b>Kentucky</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Big Sandy Rural Elec Coop Corp..... | —                     | 252,046                        | 8,385,103         | —                              | —                 | 252,046                        | 8,385,103         |
| Blue Grass Rural El Coop Corp.....  | —                     | 499,549                        | 16,565,441        | —                              | —                 | 499,549                        | 16,565,441        |
| Clark Rural Electric Coop Corp..... | —                     | 323,310                        | 10,831,006        | —                              | —                 | 323,310                        | 10,831,006        |
| Cumberland Valley Rural E C C.....  | —                     | 447,894                        | 14,778,764        | —                              | —                 | 447,894                        | 14,778,764        |
| Farmers Rural Elec Coop Corp.....   | —                     | 353,150                        | 11,643,457        | —                              | —                 | 353,150                        | 11,643,457        |
| Fleming-Mason Rural E C C.....      | —                     | 613,647                        | 17,371,954        | —                              | —                 | 613,647                        | 17,371,954        |
| Fox Creek Rural Elec Coop Corp..... | —                     | 159,720                        | 5,437,551         | —                              | —                 | 159,720                        | 5,437,551         |
| Grayson Rural Elec Coop Corp.....   | —                     | 206,250                        | 6,953,630         | —                              | —                 | 206,250                        | 6,953,630         |
| Green River Electric Coop.....      | —                     | 4,436,934                      | 131,759,318       | -1,968                         | -84,349           | 4,434,966                      | 131,674,969       |
| Harrison County Rural E C C.....    | —                     | 207,788                        | 6,000,315         | —                              | —                 | 207,788                        | 6,000,315         |
| Henderson-Union Elec Coop Corp..... | —                     | 2,719,371                      | 81,710,450        | —                              | -35,076           | 2,719,371                      | 81,675,374        |
| Hickman-Fulton Counties RECC.....   | —                     | —                              | —                 | —                              | -3,959            | 128,491                        | 5,615,579         |
| Inter County Rural E C C.....       | —                     | 315,813                        | 10,827,682        | —                              | —                 | 315,813                        | 10,827,682        |
| Jackson County Rural E C C.....     | —                     | 773,645                        | 25,880,650        | —                              | —                 | 773,645                        | 25,880,650        |
| Jackson Purchase El Coop Corp.....  | —                     | 572,452                        | 24,404,144        | —                              | —                 | 572,452                        | 24,404,144        |
| Licking Valley Rural E C C.....     | —                     | 225,850                        | 7,671,400         | —                              | —                 | 225,850                        | 7,671,400         |
| Meade County Rural E C C.....       | —                     | 317,204                        | 13,241,313        | 743                            | —                 | 317,947                        | 13,241,313        |
| Nolin Rural Electric Coop Corp..... | —                     | 551,432                        | 18,287,638        | —                              | —                 | 551,432                        | 18,287,638        |
| Owen Electric Coop Inc.....         | —                     | 1,264,151                      | 37,464,023        | —                              | —                 | 1,264,151                      | 37,464,023        |
| Pennyrite Rural Elec Coop Corp..... | —                     | —                              | —                 | —                              | —                 | 919,276                        | 41,696,138        |
| Salt River Electric Coop Corp.....  | —                     | 640,326                        | 21,452,372        | —                              | —                 | 640,326                        | 21,452,372        |
| Shelby Rural Elec Coop Corp.....    | —                     | 333,011                        | 10,403,370        | —                              | —                 | 333,011                        | 10,403,370        |
| South Kentucky Rural E C C.....     | —                     | 813,983                        | 27,828,896        | —                              | —                 | 813,983                        | 27,828,896        |
| Taylor County Rural E C C.....      | —                     | 339,528                        | 11,492,917        | —                              | —                 | 339,528                        | 11,492,917        |
| Warren Rural Elec Coop Corp.....    | —                     | —                              | —                 | —                              | —                 | 1,238,104                      | 52,193,002        |
| West Kentucky Rural E C C.....      | —                     | —                              | —                 | —                              | —                 | 822,948                        | 35,055,298        |
| <b>Louisiana</b>                    |                       |                                |                   |                                |                   |                                |                   |
| Claiborne Electric Coop Inc.....    | —                     | 413,168                        | 19,301,977        | —                              | —                 | 413,168                        | 19,301,977        |
| Concordia Electric Coop Inc.....    | —                     | 161,265                        | 7,729,741         | —                              | —                 | 161,265                        | 7,729,741         |
| Dixie Electric Membership Corp..... | —                     | 1,210,709                      | 60,143,520        | —                              | —                 | 1,210,709                      | 60,143,520        |
| Jefferson Davis Elec Coop Inc.....  | —                     | 188,924                        | 9,089,519         | —                              | —                 | 188,924                        | 9,089,519         |
| Northeast Louisiana Power Coop..... | —                     | 214,910                        | 10,881,883        | —                              | —                 | 214,910                        | 10,881,883        |
| Pointe Coupee Elec Member Corp..... | —                     | 194,340                        | 8,511,841         | —                              | —                 | 194,340                        | 8,511,841         |
| South Louisiana Elec Coop Assn..... | —                     | 422,335                        | 19,417,943        | —                              | —                 | 422,335                        | 19,417,943        |
| Southwest Louisiana E M C.....      | —                     | 1,499,056                      | 70,415,811        | —                              | —                 | 1,499,056                      | 70,415,811        |
| Teche Electric Coop Inc.....        | —                     | 179,665                        | 8,606,029         | —                              | -2,088            | 179,665                        | 8,603,941         |
| Valley Electric Member Corp.....    | —                     | 489,784                        | 24,771,261        | —                              | —                 | 489,784                        | 24,771,261        |
| Washington-St Tammany E C Inc.....  | —                     | 660,511                        | 32,526,168        | —                              | —                 | 660,511                        | 32,526,168        |
| <b>Maine</b>                        |                       |                                |                   |                                |                   |                                |                   |
| Eastern Maine Electric Coop.....    | —                     | —                              | —                 | 76,428                         | 3,914,702         | 105,756                        | 5,324,586         |
| Fox Islands Electric Coop Inc.....  | —                     | —                              | —                 | —                              | —                 | 9,236                          | 405,920           |
| Swans Island Electric Coop Inc..... | —                     | —                              | —                 | —                              | -11,561           | 2,379                          | 163,140           |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower       | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|---------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                       | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                       | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Maryland</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Choptank Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southern Maryland El Coop Inc .....   | 2,564,785                      | 122,210,991       | —                              | —                 | —                              | —                 | —                              |
| <b>Michigan</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Alger-Delta Coop Electric Assn.....   | 43,828                         | 1,555,280         | —                              | —                 | —                              | —                 | 12,454                         |
| Cherryland Electric Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Cloverland Electric Coop .....        | 208,953                        | 4,875,838         | —                              | —                 | —                              | —                 | —                              |
| Fruit Belt Electric Coop .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| O & A Electric Coop.....              | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Ontonagon County R E A .....          | 23,752                         | 898,410           | —                              | —                 | —                              | —                 | —                              |
| Southeastern Michigan REC Inc .....   | 32,987                         | 1,290,522         | —                              | —                 | —                              | —                 | 5,590                          |
| Thumb Electric Coop-Michigan .....    | 122,504                        | 4,999,477         | —                              | —                 | —                              | —                 | —                              |
| Top O' Michigan Electric Co .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tri-County Electric Coop .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Western Michigan Electric Coop .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Minnesota</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Agralite Coop.....                    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Arrowhead Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Beltrami Electric Coop Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Blue Earth-Nicollet-Faribault .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Brown County Rural Elec Assn.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Carlton County Coop Power Assn.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Clearwater-Polk Elec Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Coop L & P Assn of Lake County.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Crow Wing Coop Power&Light Co.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Dairyland Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| East Central Electric Assn.....       | —                              | —                 | —                              | —                 | —                              | —                 | 4                              |
| Federated Rural Electric Assn.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Freeborn-Mower Electric Coop.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Goodhue County Coop Elec Assn .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Itasca-Mantrap Co-op Elec Assn.....   | —                              | —                 | 22,879                         | 439,828           | —                              | —                 | —                              |
| Kandiyohi Coop Elec Power Assn.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lake Region Coop Elec Assn .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lyon-Lincoln Electric Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| McLeod Coop Power Assn.....           | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Meecker Coop Light & Power Assn ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Mille Lacs Electric Coop.....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Minnesota Valley Coop L&P Assn.....   | —                              | —                 | 57,148                         | 813,781           | —                              | —                 | —                              |
| Minnesota Valley Electric Coop .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Nobles Coop Electric.....             | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| North Itasca Electric Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| North Star Electric Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Northern Electric Coop Assn .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| P K M Electric Coop Inc .....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| People 's Coop Power Assn.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Red Lake Electric Coop Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Red River Valley Coop Pwr Assn .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Redwood Electric Coop.....            | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Renville-Sibley Coop Pwr Assn.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Roseau Electric Coop Inc .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Runestone Electric Assn.....          | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| South Central Electric Assn .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Stearns Coop Electric Assn .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Steele-Waseca Coop Electric.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Todd-Wadena Electric Coop .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Traverse Electric Coop Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tri-County Electric Coop .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Wild Rice Electric Coop Inc .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Wright-Hennepin Coop Elec Assn .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Mississippi</b>                    |                                |                   |                                |                   |                                |                   |                                |
| Central Electric Power Assn.....      | —                              | —                 | 589,258                        | 25,225,767        | —                              | —                 | —                              |
| Coahoma Electric Power Assn.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |

See notes and footnotes at end of table.



**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity |                                |                   |                                |                   |                                |                   |
|--------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                      | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                      | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Maryland</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Choptank Electric Coop Inc .....     | —                     | 661,271                        | 34,355,493        | —                              | —                 | 661,271                        | 34,355,493        |
| Southern Maryland El Coop Inc .....  | —                     | —                              | —                 | —                              | 2,262,250         | 2,564,785                      | 124,473,241       |
| <b>Michigan</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Alger-Delta Coop Electric Assn.....  | 575,898               | —                              | —                 | —                              | —                 | 56,282                         | 2,131,178         |
| Cherryland Electric Coop Inc.....    | —                     | 240,836                        | 13,103,451        | —                              | —                 | 240,836                        | 13,103,451        |
| Cloverland Electric Coop .....       | —                     | —                              | —                 | —                              | -9,126            | 208,953                        | 4,866,712         |
| Fruit Belt Electric Coop .....       | —                     | 355,949                        | 12,846,853        | —                              | —                 | 355,949                        | 12,846,853        |
| O & A Electric Coop.....             | —                     | 263,087                        | 14,362,511        | —                              | —                 | 263,087                        | 14,362,511        |
| Ontonagon County R E A .....         | —                     | —                              | —                 | —                              | —                 | 23,752                         | 898,410           |
| Southeastern Michigan REC Inc.....   | 319,039               | 12,186                         | 441,773           | —                              | —                 | 50,763                         | 2,051,334         |
| Thumb Electric Coop-Michigan.....    | —                     | —                              | —                 | —                              | 17,848            | 122,504                        | 5,017,325         |
| Top O' Michigan Electric Co .....    | —                     | 458,275                        | 24,820,577        | —                              | —                 | 458,275                        | 24,820,577        |
| Tri-County Electric Coop .....       | —                     | 228,778                        | 12,742,255        | —                              | —                 | 228,778                        | 12,742,255        |
| Western Michigan Electric Coop ..... | —                     | 66,428                         | 3,708,791         | —                              | -400              | 66,428                         | 3,708,391         |
| <b>Minnesota</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Agralite Coop.....                   | —                     | 126,110                        | 3,235,926         | 32                             | 2,058             | 126,142                        | 3,237,984         |
| Arrowhead Electric Coop Inc.....     | —                     | 50,602                         | 1,683,430         | —                              | —                 | 50,602                         | 1,683,430         |
| Beltrami Electric Coop Inc.....      | —                     | 378,510                        | 11,225,494        | —                              | —                 | 378,510                        | 11,225,494        |
| Blue Earth-Nicollet-Faribault .....  | —                     | 221,384                        | 8,323,352         | 6                              | 414               | 221,390                        | 8,323,766         |
| Brown County Rural Elec Assn.....    | —                     | 103,097                        | 3,228,650         | —                              | —                 | 103,097                        | 3,228,650         |
| Carlton County Coop Power Assn.....  | —                     | 138,321                        | 4,789,764         | —                              | —                 | 138,321                        | 4,789,764         |
| Clearwater-Polk Elec Coop Inc.....   | —                     | 65,726                         | 2,121,848         | —                              | —                 | 65,726                         | 2,121,848         |
| Coop L & P Assn of Lake County.....  | —                     | 72,364                         | 2,388,081         | —                              | —                 | 72,364                         | 2,388,081         |
| Crow Wing Coop Power&Light Co.....   | —                     | 343,532                        | 12,469,509        | —                              | —                 | 343,532                        | 12,469,509        |
| Dairyland Electric Coop Inc.....     | —                     | 160,016                        | 6,159,020         | —                              | —                 | 160,016                        | 6,159,020         |
| East Central Electric Assn.....      | 3,852                 | 634,105                        | 24,012,285        | —                              | —                 | 634,109                        | 24,016,137        |
| Federated Rural Electric Assn.....   | —                     | 130,016                        | 3,655,793         | —                              | —                 | 130,016                        | 3,655,793         |
| Freeborn-Mower Electric Coop.....    | —                     | 129,571                        | 4,683,756         | —                              | —                 | 129,571                        | 4,683,756         |
| Goodhue County Coop Elec Assn.....   | —                     | 78,271                         | 3,348,844         | —                              | —                 | 78,271                         | 3,348,844         |
| Itasca-Mantrap Co-op Elec Assn.....  | —                     | 114,141                        | 3,908,496         | —                              | —                 | 137,020                        | 4,348,324         |
| Kandiyohi Coop Elec Power Assn.....  | —                     | 128,131                        | 4,296,483         | —                              | —                 | 128,131                        | 4,296,483         |
| Lake Region Coop Elec Assn.....      | —                     | 31,110                         | 10,499,289        | 1                              | 40                | 31,111                         | 10,499,329        |
| Lyon-Lincoln Electric Coop Inc.....  | —                     | 76,727                         | 2,790,483         | —                              | —                 | 76,727                         | 2,790,483         |
| McLeod Coop Power Assn.....          | —                     | 128,073                        | 4,742,271         | —                              | —                 | 128,073                        | 4,742,271         |
| Meeker Coop Light & Power Assn ..... | —                     | 131,564                        | 4,268,217         | —                              | —                 | 131,564                        | 4,268,217         |
| Mille Lacs Electric Coop.....        | —                     | 133,077                        | 4,732,319         | —                              | —                 | 133,077                        | 4,732,319         |
| Minnesota Valley Coop L&P Assn.....  | —                     | 97,121                         | 3,923,081         | —                              | —                 | 154,269                        | 4,736,862         |
| Minnesota Valley Electric Coop.....  | —                     | 327,568                        | 12,858,922        | —                              | -102,084          | 327,568                        | 12,756,838        |
| Nobles Coop Electric.....            | —                     | 109,098                        | 2,918,858         | —                              | —                 | 109,098                        | 2,918,858         |
| North Itasca Electric Coop Inc.....  | —                     | 37,698                         | 1,394,164         | —                              | —                 | 37,698                         | 1,394,164         |
| North Star Electric Coop Inc.....    | —                     | 100,078                        | 2,835,734         | —                              | 8                 | 100,078                        | 2,835,742         |
| Northern Electric Coop Assn .....    | —                     | 242,645                        | 8,266,035         | —                              | —                 | 242,645                        | 8,266,035         |
| P K M Electric Coop Inc .....        | —                     | 110,497                        | 3,288,017         | —                              | —                 | 110,497                        | 3,288,017         |
| People's Coop Power Assn.....        | —                     | 210,379                        | 8,164,097         | 8                              | 512               | 210,387                        | 8,164,609         |
| Red Lake Electric Coop Inc.....      | —                     | 116,287                        | 3,687,564         | —                              | —                 | 116,287                        | 3,687,564         |
| Red River Valley Coop Pwr Assn.....  | —                     | 126,950                        | 4,017,385         | —                              | —                 | 126,950                        | 4,017,385         |
| Redwood Electric Coop.....           | —                     | 58,521                         | 1,631,468         | 25                             | 1,755             | 58,546                         | 1,633,223         |
| Renville-Sibley Coop Pwr Assn.....   | —                     | 86,828                         | 2,619,998         | —                              | —                 | 86,828                         | 2,619,998         |
| Roseau Electric Coop Inc.....        | —                     | 154,410                        | 4,185,026         | 6                              | 500               | 154,416                        | 4,185,526         |
| Runestone Electric Assn.....         | —                     | 176,242                        | 5,481,505         | —                              | —                 | 176,242                        | 5,481,505         |
| South Central Electric Assn.....     | —                     | 94,843                         | 2,612,124         | —                              | —                 | 94,843                         | 2,612,124         |
| Stearns Coop Electric Assn.....      | —                     | 334,056                        | 11,808,494        | 8                              | 485               | 334,064                        | 11,808,979        |
| Steele-Waseca Coop Electric.....     | —                     | 151,446                        | 5,553,391         | 28                             | 2,415             | 151,474                        | 5,555,806         |
| Todd-Wadena Electric Coop.....       | —                     | 141,868                        | 4,398,619         | —                              | —                 | 141,868                        | 4,398,619         |
| Traverse Electric Coop Inc.....      | —                     | 69,100                         | 2,283,680         | —                              | —                 | 69,100                         | 2,283,680         |
| Tri-County Electric Coop.....        | —                     | 253,799                        | 9,624,966         | 28                             | 1,827             | 253,827                        | 9,626,793         |
| Wild Rice Electric Coop Inc.....     | —                     | 203,643                        | 6,345,485         | —                              | —                 | 203,643                        | 6,345,485         |
| Wright-Hennepin Coop Elec Assn.....  | —                     | 513,570                        | 18,640,167        | —                              | —                 | 513,570                        | 18,640,167        |
| <b>Mississippi</b>                   |                       |                                |                   |                                |                   |                                |                   |
| Central Electric Power Assn.....     | —                     | —                              | —                 | —                              | —                 | 589,258                        | 25,225,767        |
| Coahoma Electric Power Assn.....     | —                     | 111,780                        | 4,936,525         | —                              | —                 | 111,780                        | 4,936,525         |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|--------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                      | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                      | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Mississippi</b>                   |                                |                   |                                |                   |                                |                   |                                |
| Coast Electric Power Assn .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Dixie Electric Power Assn .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| East Mississippi Elec Pwr Assn ..... | 326,073                        | 12,558,079        | 230,138                        | 9,541,937         | —                              | —                 | —                              |
| Magnolia Electric Power Assn .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Monroe County Elec Power Assn .....  | —                              | —                 | 177,348                        | 7,811,723         | —                              | —                 | —                              |
| North East Mississippi E P A .....   | —                              | —                 | 387,995                        | 16,727,557        | —                              | —                 | —                              |
| Northcentral Mississippi E P A ..... | —                              | —                 | 648,958                        | 28,417,251        | —                              | —                 | —                              |
| Singing River Elec Power Assn .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southern Pine Elec Power Assn .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southwest Mississippi E P A .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tallahatchie Valley E P A .....      | —                              | —                 | 621,469                        | 26,144,759        | —                              | —                 | —                              |
| Tishomingo County E P A .....        | —                              | —                 | 240,707                        | 11,147,851        | —                              | —                 | —                              |
| Tombigbee Electric Power Assn .....  | —                              | —                 | 989,894                        | 43,406,004        | —                              | —                 | —                              |
| Twin County Electric Pwr Assn .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Yazoo Valley Elec Power Assn .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Missouri</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Atchison-Holt Electric Coop .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Barry Electric Coop .....            | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Barton County Elec Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Black River Electric Coop .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Boone Electric Coop .....            | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Callaway Electric Coop .....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Central Missouri Elec Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Citizens Electric Corp .....         | 775,955                        | 27,542,584        | —                              | —                 | —                              | —                 | —                              |
| Consolidated Electric Coop .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Crawford Electric Coop Inc .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| CO-MO Electric Coop Inc .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Farmers ' Electric Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Gascosage Electric Coop .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Grundy Electric Coop Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Howard Electric Coop .....           | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Howell-Oregon Elec Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Intercounty Electric Coop Assn ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Laclede Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lewis County Rural E C A .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Macon Electric Coop .....            | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Missouri Rural Electric Coop .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| New-Mac Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Nodaway Worth Elec Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| North Central MO Elec Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Northwest Missouri El Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Osage Valley Elec Coop Assn .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Ozark Border Electric Coop .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Ozark Electric Coop Inc .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Pemiscot-Dunklin Elec Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Platte-Clay Electric Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Ralls County Electric Coop .....     | 29                             | 1,732             | —                              | —                 | —                              | —                 | —                              |
| Sac-Osage Electric Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southwest Electric Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| SE-MA-NO Electric Coop .....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Three Rivers Electric Coop .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tri-County Electric Coop Assn .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Webster Electric Coop .....          | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| West Central Electric Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| White River Valley El Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | 95                             |
| <b>Montana</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Beartooth Electric Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Big Flat Electric Coop Inc .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Big Horn County Elec Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Fergus Electric Coop Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Goldenwest Electric Coop Inc .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Hill County Electric Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity |                                |                   |                                |                   |                                |                   |
|--------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                      | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                      | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Mississippi</b>                   |                       |                                |                   |                                |                   |                                |                   |
| Coast Electric Power Assn .....      | —                     | 1,045,075                      | 46,644,603        | —                              | —                 | 1,045,075                      | 46,644,603        |
| Dixie Electric Power Assn .....      | —                     | 638,820                        | 28,396,146        | —                              | —                 | 638,820                        | 28,396,146        |
| East Mississippi Elec Pwr Assn ..... | —                     | —                              | —                 | —                              | —                 | 556,211                        | 22,100,016        |
| Magnolia Electric Power Assn .....   | —                     | 463,652                        | 20,101,767        | —                              | —                 | 463,652                        | 20,101,767        |
| Monroe County Elec Power Assn .....  | —                     | —                              | —                 | —                              | —                 | 177,348                        | 7,811,723         |
| North East Mississippi E P A .....   | —                     | —                              | —                 | —                              | —                 | 387,995                        | 16,727,557        |
| Northcentral Mississippi E P A ..... | —                     | —                              | —                 | —                              | —                 | 648,958                        | 28,417,251        |
| Singing River Elec Power Assn .....  | —                     | 1,036,249                      | 46,268,501        | —                              | —                 | 1,036,249                      | 46,268,501        |
| Southern Pine Elec Power Assn .....  | —                     | 1,474,607                      | 61,231,682        | —                              | —                 | 1,474,607                      | 61,231,682        |
| Southwest Mississippi E P A .....    | —                     | 403,981                        | 17,360,575        | —                              | —                 | 403,981                        | 17,360,575        |
| Tallahatchie Valley E P A .....      | —                     | —                              | —                 | —                              | —                 | 621,469                        | 26,144,759        |
| Tishomingo County E P A .....        | —                     | —                              | —                 | —                              | —                 | 240,707                        | 11,147,851        |
| Tombigbee Electric Power Assn .....  | —                     | —                              | —                 | —                              | —                 | 989,894                        | 43,406,004        |
| Twin County Electric Pwr Assn .....  | —                     | 252,551                        | 10,993,062        | —                              | —                 | 252,551                        | 10,993,062        |
| Yazoo Valley Elec Power Assn .....   | —                     | 233,543                        | 8,455,742         | —                              | —                 | 233,543                        | 8,455,742         |
| <b>Missouri</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Atchison-Holt Electric Coop .....    | —                     | 48,997                         | 1,750,488         | —                              | —                 | 48,997                         | 1,750,488         |
| Bary Electric Coop .....             | —                     | 150,785                        | 5,886,131         | —                              | —                 | 150,785                        | 5,886,131         |
| Barton County Elec Coop Inc .....    | —                     | 95,107                         | 3,692,524         | —                              | —                 | 95,107                         | 3,692,524         |
| Black River Electric Coop .....      | —                     | 372,041                        | 12,087,620        | —                              | —                 | 372,041                        | 12,087,620        |
| Boone Electric Coop .....            | —                     | 381,826                        | 12,999,350        | —                              | —                 | 381,826                        | 12,999,350        |
| Callaway Electric Coop .....         | —                     | 159,566                        | 5,210,255         | —                              | —                 | 159,566                        | 5,210,255         |
| Central Missouri Elec Coop Inc ..... | —                     | 210,676                        | 6,145,961         | —                              | —                 | 210,676                        | 6,145,961         |
| Citizens Electric Corp .....         | —                     | —                              | —                 | —                              | —                 | 775,955                        | 27,542,584        |
| Consolidated Electric Coop .....     | —                     | 193,145                        | 5,832,513         | —                              | —                 | 193,145                        | 5,832,513         |
| Crawford Electric Coop Inc .....     | —                     | 228,385                        | 7,928,046         | —                              | —                 | 228,385                        | 7,928,046         |
| CO-MO Electric Coop Inc .....        | —                     | 300,074                        | 10,181,799        | —                              | —                 | 300,074                        | 10,181,799        |
| Farmers ' Electric Coop Inc .....    | —                     | 244,099                        | 7,602,514         | —                              | —                 | 244,099                        | 7,602,514         |
| Gascosage Electric Coop .....        | —                     | 107,014                        | 4,043,353         | —                              | —                 | 107,014                        | 4,043,353         |
| Grundy Electric Coop Inc .....       | —                     | 131,393                        | 4,302,442         | —                              | —                 | 131,393                        | 4,302,442         |
| Howard Electric Coop .....           | —                     | 34,894                         | 1,121,596         | —                              | —                 | 34,894                         | 1,121,596         |
| Howell-Oregon Elec Coop Inc .....    | —                     | 310,674                        | 10,521,764        | 395                            | 25,700            | 311,069                        | 10,547,464        |
| Intercounty Electric Coop Assn ..... | —                     | 436,991                        | 15,267,049        | —                              | —                 | 436,991                        | 15,267,049        |
| Laclede Electric Coop Inc .....      | —                     | 481,157                        | 16,809,493        | —                              | —                 | 481,157                        | 16,809,493        |
| Lewis County Rural E C A .....       | —                     | 82,290                         | 2,824,988         | —                              | —                 | 82,290                         | 2,824,988         |
| Macon Electric Coop .....            | —                     | 239,790                        | 6,887,874         | —                              | —                 | 239,790                        | 6,887,874         |
| Missouri Rural Electric Coop .....   | —                     | 279,055                        | 8,449,991         | —                              | —                 | 279,055                        | 8,449,991         |
| New-Mac Electric Coop Inc .....      | —                     | 205,312                        | 8,284,631         | —                              | —                 | 205,312                        | 8,284,631         |
| Nodaway Worth Elec Coop Inc .....    | —                     | 51,251                         | 1,845,816         | —                              | —                 | 51,251                         | 1,845,816         |
| North Central MO Elec Coop Inc ..... | —                     | 154,629                        | 4,523,043         | —                              | —                 | 154,629                        | 4,523,043         |
| Northwest Missouri El Coop Inc ..... | —                     | 77,621                         | 2,651,587         | —                              | —                 | 77,621                         | 2,651,587         |
| Osage Valley Elec Coop Assn .....    | —                     | 203,454                        | 8,590,270         | —                              | —                 | 203,454                        | 8,590,270         |
| Ozark Border Electric Coop .....     | —                     | 510,142                        | 16,679,065        | —                              | —                 | 510,142                        | 16,679,065        |
| Ozark Electric Coop Inc .....        | —                     | 368,446                        | 15,287,337        | —                              | —                 | 368,446                        | 15,287,337        |
| Pemiscot-Dunklin Elec Coop Inc ..... | —                     | 114,509                        | 3,600,396         | —                              | —                 | 114,509                        | 3,600,396         |
| Platte-Clay Electric Coop Inc .....  | —                     | 333,881                        | 12,115,695        | —                              | —                 | 333,881                        | 12,115,695        |
| Ralls County Electric Coop .....     | —                     | 64,456                         | 2,244,290         | —                              | —                 | 64,485                         | 2,246,022         |
| Sac-Osage Electric Coop Inc .....    | —                     | 110,695                        | 4,519,906         | —                              | —                 | 110,695                        | 4,519,906         |
| Southwest Electric Coop Inc .....    | —                     | 407,025                        | 16,862,027        | —                              | —                 | 407,025                        | 16,862,027        |
| SE-MA-NO Electric Coop .....         | —                     | 73,854                         | 2,544,163         | —                              | —                 | 73,854                         | 2,544,163         |
| Three Rivers Electric Coop .....     | —                     | 310,401                        | 10,146,470        | —                              | —                 | 310,401                        | 10,146,470        |
| Tri-County Electric Coop Assn .....  | —                     | 106,044                        | 3,419,484         | —                              | —                 | 106,044                        | 3,419,484         |
| Webster Electric Coop .....          | —                     | 248,627                        | 8,403,592         | —                              | —                 | 248,627                        | 8,403,592         |
| West Central Electric Coop Inc ..... | —                     | 173,872                        | 6,417,521         | —                              | —                 | 173,872                        | 6,417,521         |
| White River Valley El Coop Inc ..... | 3,945                 | 554,187                        | 21,448,925        | —                              | —                 | 554,282                        | 21,452,870        |
| <b>Montana</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Beartooth Electric Coop Inc .....    | —                     | 55,662                         | 1,660,496         | —                              | —                 | 55,662                         | 1,660,496         |
| Big Flat Electric Coop Inc .....     | —                     | 60,790                         | 1,539,547         | —                              | —                 | 60,790                         | 1,539,547         |
| Big Horn County Elec Coop Inc .....  | —                     | 60,136                         | 1,815,260         | —                              | —4,188            | 60,136                         | 1,811,072         |
| Fergus Electric Coop Inc .....       | —                     | 91,584                         | 2,599,527         | —                              | —                 | 91,584                         | 2,599,527         |
| Goldenwest Electric Coop Inc .....   | —                     | 15,321                         | 550,344           | —                              | —                 | 15,321                         | 550,344           |
| Hill County Electric Coop Inc .....  | —                     | 55,864                         | 1,503,761         | —                              | —                 | 55,864                         | 1,503,761         |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|--------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                      | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                      | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Montana</b>                       |                                |                   |                                |                   |                                |                   |                                |
| Lincoln Electric Coop Inc .....      | 6,627                          | 102,471           | 111,788                        | 3,079,804         | —                              | —                 | —                              |
| Lower Yellowstone R E A Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Marias River Electric Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| McCone Electric Coop Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Mid-Yellowstone Elec Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Missoula Electric Coop Inc .....     | —                              | —                 | 169,786                        | 4,552,935         | —                              | —                 | —                              |
| Northern Electric Coop Inc .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Park Electric Coop Inc .....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Ravalli County Elec Coop Inc .....   | —                              | —                 | 113,410                        | 3,018,376         | —                              | —                 | —                              |
| Sheridan Electric Coop Inc .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southeast Electric Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sun River Electric Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tongue River Electric Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Valley Electric Coop Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Vigilante Electric Coop Inc.....     | 4,418                          | 64,945            | 125,841                        | 3,310,925         | —                              | —                 | —                              |
| Yellowstone Vily Elec Coop Inc ..... | 160,775                        | 4,786,885         | 26,976                         | 819,589           | —                              | —                 | —                              |
| <b>Nebraska</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Midwest Electric Member Corp.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Panhandle Rural El Member Assn.....  | —                              | —                 | —                              | —                 | —                              | —                 | 51                             |
| <b>Nevada</b>                        |                                |                   |                                |                   |                                |                   |                                |
| Mt Wheeler Power Inc .....           | —                              | 73,941            | —                              | —                 | —                              | —                 | —                              |
| Wells Rural Electric Co.....         | —                              | 16,225            | 703,492                        | 18,922,186        | —                              | —                 | —                              |
| <b>New Hampshire</b>                 |                                |                   |                                |                   |                                |                   |                                |
| New Hampshire Elec Coop Inc.....     | 638,180                        | 49,702,810        | —                              | —                 | —                              | —                 | —                              |
| <b>New Jersey</b>                    |                                |                   |                                |                   |                                |                   |                                |
| Sussex Rural Electric Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>New Mexico</b>                    |                                |                   |                                |                   |                                |                   |                                |
| Central New Mexico El Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Central Valley Elec Coop Inc .....   | 482,661                        | 16,577,898        | —                              | —                 | —                              | —                 | —                              |
| Columbus Electric Coop Inc .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Continental Divide El Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Farmers ' Electric Coop Inc.....     | 189,295                        | 6,939,614         | 21,523                         | 354,020           | —                              | —                 | —                              |
| Jemez Mountains Elec Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Kit Carson Electric Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lea County Electric Coop Inc.....    | 825,869                        | 28,636,617        | —                              | —                 | —                              | —                 | —                              |
| Mora-San Miguel Elec Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Northern Rio Arriba E C Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Otero County Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Roosevelt County Elec Coop Inc ..... | 143,794                        | 5,020,047         | —                              | 354,020           | —                              | —                 | —                              |
| Sierra Electric Coop Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Socorro Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southwestern Electric Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Springer Electric Coop Inc .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>New York</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Delaware County Elec Coop Inc.....   | —                              | —                 | —                              | —                 | 48,267                         | 854,167           | —                              |
| Oneida-Madison Elec Coop Inc .....   | —                              | —                 | —                              | —                 | 18,682                         | 365,463           | —                              |
| Otsego Electric Coop Inc .....       | —                              | —                 | —                              | —                 | 46,109                         | 962,776           | —                              |
| Steuben Rural Elec Coop Inc.....     | —                              | —                 | —                              | —                 | 62,697                         | 1,071,731         | —                              |
| <b>North Carolina</b>                |                                |                   |                                |                   |                                |                   |                                |
| Albemarle Electric Member Corp.....  | —                              | —                 | 11,066                         | 204,054           | —                              | —                 | —                              |
| Blue Ridge Elec Member Corp.....     | —                              | —                 | 14,498                         | 377,189           | —                              | —                 | —                              |
| Brunswick Electric Member Corp.....  | —                              | —                 | 16,497                         | 241,745           | —                              | —                 | —                              |
| Cape Hatteras Elec Member Corp ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Carteret-Craven El Member Corp.....  | —                              | —                 | 12,574                         | 184,249           | —                              | —                 | —                              |
| Central Electric Member Corp.....    | —                              | —                 | 5,815                          | 85,212            | —                              | —                 | —                              |
| Crescent Electric Member Corp.....   | —                              | —                 | 33,178                         | 863,187           | —                              | —                 | —                              |
| Davidson Electric Member Corp.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity |                                |                   |                                |                   |                                |                   |
|--------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                      | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                      | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Montana</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Lincoln Electric Coop Inc .....      | —                     | —                              | —                 | 2,149                          | 7,328             | 120,564                        | 3,189,603         |
| Lower Yellowstone R E A Inc.....     | —                     | 78,294                         | 2,911,877         | —                              | —                 | 78,294                         | 2,911,877         |
| Marias River Electric Coop Inc ..... | —                     | 84,684                         | 2,279,829         | —                              | —                 | 84,684                         | 2,279,829         |
| McCone Electric Coop Inc .....       | —                     | 69,457                         | 2,373,575         | —                              | —                 | 69,457                         | 2,373,575         |
| Mid-Yellowstone Elec Coop Inc.....   | —                     | 30,117                         | 809,231           | —                              | —                 | 30,117                         | 809,231           |
| Missoula Electric Coop Inc .....     | —                     | —                              | —                 | —                              | —                 | 169,786                        | 4,552,935         |
| Northern Electric Coop Inc .....     | —                     | 31,384                         | 747,652           | —                              | —                 | 31,384                         | 747,652           |
| Park Electric Coop Inc .....         | —                     | 57,832                         | 1,737,050         | —                              | —                 | 57,832                         | 1,737,050         |
| Ravalli County Elec Coop Inc .....   | —                     | —                              | —                 | —                              | —                 | 113,410                        | 3,018,376         |
| Sheridan Electric Coop Inc.....      | —                     | 89,541                         | 3,000,937         | —                              | —                 | 89,541                         | 3,000,937         |
| Southeast Electric Coop Inc .....    | —                     | 24,692                         | 875,473           | —                              | -6,338            | 24,692                         | 869,135           |
| Sun River Electric Coop Inc .....    | —                     | 85,592                         | 2,322,240         | —                              | -9,093            | 85,592                         | 2,313,147         |
| Tongue River Electric Coop Inc ..... | —                     | 92,036                         | 2,519,735         | —                              | —                 | 92,036                         | 2,519,735         |
| Valley Electric Coop Inc .....       | —                     | 24,588                         | 701,875           | —                              | —                 | 24,588                         | 701,875           |
| Vigilante Electric Coop Inc.....     | —                     | —                              | —                 | —                              | -5,233            | 130,259                        | 3,370,637         |
| Yellowstone Vily Elec Coop Inc ..... | —                     | —                              | -181,451          | —                              | —                 | 187,751                        | 5,425,023         |
| <b>Nebraska</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Midwest Electric Member Corp.....    | —                     | 114,245                        | 5,677,555         | —                              | —                 | 114,245                        | 5,677,555         |
| Panhandle Rural El Member Assn.....  | 8,212                 | 95,527                         | 4,016,228         | —                              | —                 | 95,578                         | 4,024,440         |
| <b>Nevada</b>                        |                       |                                |                   |                                |                   |                                |                   |
| Mt Wheeler Power Inc .....           | —                     | 340,621                        | 16,155,683        | 84,752                         | 1,764,819         | 425,373                        | 17,994,443        |
| Wells Rural Electric Co.....         | —                     | —                              | —                 | —                              | 180,165           | 703,492                        | 19,118,576        |
| <b>New Hampshire</b>                 |                       |                                |                   |                                |                   |                                |                   |
| New Hampshire Elec Coop Inc.....     | —                     | —                              | —                 | -865                           | -473,034          | 637,315                        | 49,229,776        |
| <b>New Jersey</b>                    |                       |                                |                   |                                |                   |                                |                   |
| Sussex Rural Electric Coop Inc ..... | —                     | 118,708                        | 7,014,201         | —                              | —                 | 118,708                        | 7,014,201         |
| <b>New Mexico</b>                    |                       |                                |                   |                                |                   |                                |                   |
| Central New Mexico El Coop Inc ..... | —                     | 128,257                        | 7,523,605         | —                              | —                 | 128,257                        | 7,523,605         |
| Central Valley Elec Coop Inc .....   | —                     | —                              | —                 | —                              | —                 | 482,661                        | 16,577,898        |
| Columbus Electric Coop Inc .....     | —                     | 305,542                        | 13,159,543        | —                              | —                 | 305,542                        | 13,159,543        |
| Continental Divide El Coop Inc.....  | —                     | 354,105                        | 18,384,012        | —                              | —                 | 354,105                        | 18,384,012        |
| Farmers ' Electric Coop Inc .....    | —                     | —                              | —                 | —                              | —                 | 210,818                        | 7,293,634         |
| Jemez Mountains Elec Coop Inc.....   | —                     | 252,507                        | 15,078,377        | —                              | —                 | 252,507                        | 15,078,377        |
| Kit Carson Electric Coop Inc .....   | —                     | 236,452                        | 13,463,041        | —                              | —                 | 236,452                        | 13,463,041        |
| Lea County Electric Coop Inc.....    | —                     | —                              | —                 | —                              | —                 | 825,869                        | 28,636,617        |
| Mora-San Miguel Elec Coop Inc .....  | —                     | 54,012                         | 3,321,987         | —                              | —                 | 54,012                         | 3,321,987         |
| Northern Rio Arriba E C Inc .....    | —                     | 27,334                         | 1,604,878         | —                              | —                 | 27,334                         | 1,604,878         |
| Otero County Electric Coop Inc.....  | —                     | 111,442                        | 6,660,098         | —                              | —                 | 111,442                        | 6,660,098         |
| Roosevelt County Elec Coop Inc ..... | —                     | —                              | —                 | —                              | —                 | 143,794                        | 5,374,067         |
| Sierra Electric Coop Inc .....       | —                     | 40,224                         | 2,218,693         | —                              | —                 | 40,224                         | 2,218,693         |
| Socorro Electric Coop Inc .....      | —                     | 148,295                        | 8,434,902         | —                              | —                 | 148,295                        | 8,434,902         |
| Southwestern Electric Coop Inc ..... | —                     | 459,888                        | 16,738,581        | —                              | —                 | 459,888                        | 16,738,581        |
| Springer Electric Coop Inc .....     | —                     | 50,527                         | 2,795,101         | —                              | —                 | 50,527                         | 2,795,101         |
| <b>New York</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Delaware County Elec Coop Inc.....   | —                     | —                              | —                 | —                              | —                 | 48,267                         | 854,167           |
| Oneida-Madison Elec Coop Inc .....   | —                     | —                              | —                 | —                              | 2,880             | 18,682                         | 368,343           |
| Otsego Electric Coop Inc .....       | —                     | —                              | —                 | —                              | —                 | 46,109                         | 962,776           |
| Steuben Rural Elec Coop Inc .....    | —                     | —                              | —                 | —                              | —                 | 62,697                         | 1,071,731         |
| <b>North Carolina</b>                |                       |                                |                   |                                |                   |                                |                   |
| Albemarle Electric Member Corp.....  | —                     | 118,497                        | 6,471,308         | —                              | —                 | 129,563                        | 6,675,362         |
| Blue Ridge Elec Member Corp.....     | —                     | 983,421                        | 40,557,476        | 654                            | 20,739            | 998,573                        | 40,955,404        |
| Brunswick Electric Member Corp.....  | —                     | 710,394                        | 43,389,463        | —                              | —                 | 726,891                        | 43,631,208        |
| Cape Hatteras Elec Member Corp ..... | —                     | 87,219                         | 4,349,005         | —                              | —                 | 87,219                         | 4,349,005         |
| Carteret-Craven El Member Corp ..... | —                     | 423,443                        | 25,924,663        | —                              | —                 | 436,017                        | 26,108,912        |
| Central Electric Member Corp .....   | —                     | 204,755                        | 12,297,807        | —                              | —                 | 210,570                        | 12,383,019        |
| Crescent Electric Member Corp.....   | —                     | 885,556                        | 44,203,079        | —                              | -504,858          | 918,734                        | 44,561,408        |
| Davidson Electric Member Corp.....   | —                     | 572,615                        | 28,209,483        | —                              | —                 | 572,615                        | 28,209,483        |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower     | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|-------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                     | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>North Carolina</b>               |                                |                   |                                |                   |                                |                   |                                |
| Edgecombe-Martin County E M C ..... | —                              | —                 | 17,733                         | 326,975           | —                              | —                 | —                              |
| Four County Elec Member Corp.....   | —                              | —                 | 19,703                         | 288,718           | —                              | —                 | —                              |
| French Broad Elec Member Corp.....  | 407,778                        | 17,197,744        | 12,739                         | 421,867           | —                              | —                 | —                              |
| Halifax Electric Member Corp.....   | —                              | —                 | 24,336                         | 199,274           | —                              | —                 | —                              |
| Harkers Island El Member Corp.....  | —                              | —                 | 43                             | 2,163             | —                              | —                 | —                              |
| Haywood Electric Member Corp.....   | —                              | —                 | 5,431                          | 167,781           | —                              | —                 | —                              |
| Lumbee River Elec Member Corp.....  | —                              | —                 | 17,502                         | 256,463           | —                              | —                 | —                              |
| Pee Dee Electric Member Corp.....   | —                              | —                 | 14,728                         | 224,864           | —                              | —                 | —                              |
| Piedmont Electric Member Corp.....  | —                              | —                 | 5,097                          | 74,690            | —                              | —                 | —                              |
| Randolph Electric Member Corp.....  | —                              | —                 | 16,934                         | 248,141           | —                              | —                 | —                              |
| Roanoke Electric Member Corp.....   | —                              | —                 | 23,593                         | 435,022           | —                              | —                 | —                              |
| Rutherford Elec Member Corp.....    | —                              | —                 | 46,434                         | 1,208,160         | —                              | —                 | —                              |
| South River Elec Member Corp.....   | —                              | —                 | 28,719                         | 420,835           | —                              | —                 | —                              |
| Surry-Yadkin Elec Member Corp.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tideland Electric Member Corp.....  | —                              | —                 | 13,511                         | 237,050           | —                              | —                 | —                              |
| Tri-County Elec Member Corp.....    | —                              | —                 | 14,531                         | 212,928           | —                              | —                 | —                              |
| Union Electric Membership Corp..... | —                              | —                 | 22,168                         | 576,728           | —                              | —                 | —                              |
| <b>North Dakota</b>                 |                                |                   |                                |                   |                                |                   |                                |
| Baker Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Burke-Divide Electric Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Capital Electric Coop Inc.....      | —                              | —                 | 13,335                         | 199,865           | —                              | —                 | —                              |
| Cass County Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Cavalier Rural Elec Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| James Valley Electric Coop Inc..... | 71                             | 2,495             | —                              | —                 | —                              | —                 | —                              |
| KEM Electric Coop Inc.....          | —                              | —                 | 35,736                         | 530,551           | —                              | —                 | —                              |
| McKenzie Electric Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| McLean Electric Coop Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Mor-Gran-Sou Electric Coop Inc..... | —                              | —                 | 29,174                         | 434,985           | —                              | —                 | —                              |
| Mountrail-Williams Elec Coop.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Nodak Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| North Central Elec Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Oliver-Mercer Elec Coop Inc.....    | —                              | —                 | 19,652                         | 276,749           | —                              | —                 | —                              |
| R S R Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sheyenne Valley Elec Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Slope Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tri-County Electric Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Verendrye Electric Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| West Plains Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Ohio</b>                         |                                |                   |                                |                   |                                |                   |                                |
| Adams Rural Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Buckeye Rural Elec Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Butler Rural Electric Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Carroll Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Darke Rural Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Firelands Electric Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Frontier Power Co.....              | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Guernsey-Muskingum El Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Hancock-Wood Electric Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Holmes-Wayne Electric Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Logan Cnty Coop P&L Assn Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lorain-Medina R E C Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Marion Rural Electric Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Midwest Electric Inc.....           | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Morrow Electric Coop Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| North Central Elec Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| North Western Elec Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Pioneer Rural Elec Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| South Central Power Co.....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Union Rural Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| United Rural Electric Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Washington Electric Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower     | Source of Electricity |                                |                   |                                |                   |                                |                   |
|-------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                     | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                     | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>North Carolina</b>               |                       |                                |                   |                                |                   |                                |                   |
| Edgecombe-Martin County E M C ..... | —                     | 185,671                        | 8,711,393         | —                              | 27,778            | 203,404                        | 9,066,146         |
| Four County Elec Member Corp.....   | —                     | 655,195                        | 30,703,467        | —                              | —                 | 674,898                        | 30,992,185        |
| French Broad Elec Member Corp.....  | —                     | —                              | —                 | —                              | —                 | 420,517                        | 17,619,611        |
| Halifax Electric Member Corp.....   | —                     | 99,280                         | 5,506,572         | —                              | —                 | 123,616                        | 5,705,846         |
| Harkers Island El Member Corp.....  | —                     | 15,972                         | 888,915           | —                              | —                 | 16,015                         | 891,078           |
| Haywood Electric Member Corp.....   | —                     | 194,554                        | 9,285,230         | —                              | —                 | 199,985                        | 9,453,011         |
| Lumbee River Elec Member Corp.....  | —                     | 675,795                        | 40,856,921        | —                              | —                 | 693,297                        | 41,113,384        |
| Pee Dee Electric Member Corp.....   | —                     | 286,065                        | 16,390,428        | —                              | —                 | 300,793                        | 16,615,292        |
| Piedmont Electric Member Corp.....  | —                     | 336,423                        | 16,421,289        | —                              | —                 | 341,520                        | 16,495,979        |
| Randolph Electric Member Corp.....  | —                     | 405,781                        | 23,243,024        | —                              | —                 | 422,715                        | 23,491,165        |
| Roanoke Electric Member Corp.....   | —                     | 191,116                        | 9,925,470         | —                              | —                 | 214,709                        | 10,360,492        |
| Rutherford Elec Member Corp.....    | —                     | 882,754                        | 41,348,743        | —                              | —                 | 929,188                        | 42,556,903        |
| South River Elec Member Corp.....   | —                     | 523,336                        | 32,868,860        | —                              | —                 | 552,055                        | 33,289,695        |
| Surry-Yadkin Elec Member Corp.....  | —                     | 287,171                        | 14,767,846        | —                              | —                 | 287,171                        | 14,767,846        |
| Tideland Electric Member Corp.....  | —                     | 246,298                        | 13,564,465        | —                              | —                 | 259,809                        | 13,801,515        |
| Tri-County Elec Member Corp.....    | —                     | 387,606                        | 23,283,949        | —                              | —                 | 402,137                        | 23,496,877        |
| Union Electric Membership Corp..... | —                     | 587,491                        | 31,942,270        | —                              | —                 | 609,659                        | 32,518,998        |
| <b>North Dakota</b>                 |                       |                                |                   |                                |                   |                                |                   |
| Baker Electric Coop Inc.....        | —                     | 172,266                        | 5,998,653         | —                              | —                 | 172,266                        | 5,998,653         |
| Burke-Divide Electric Coop Inc..... | —                     | 62,307                         | 1,963,761         | —                              | —                 | 62,307                         | 1,963,761         |
| Capital Electric Coop Inc.....      | —                     | 128,010                        | 4,880,546         | —                              | 1                 | 141,345                        | 5,080,412         |
| Cass County Electric Coop Inc.....  | —                     | 550,901                        | 14,213,178        | —                              | —                 | 550,901                        | 14,213,178        |
| Cavalier Rural Elec Coop Inc.....   | —                     | 41,070                         | 1,433,847         | —                              | —                 | 41,070                         | 1,433,847         |
| James Valley Electric Coop Inc..... | —                     | 78,429                         | 3,117,917         | —                              | —                 | 78,500                         | 3,120,412         |
| KEM Electric Coop Inc.....          | —                     | 27,289                         | 1,079,431         | —                              | 10,406            | 63,025                         | 1,620,388         |
| McKenzie Electric Coop Inc.....     | —                     | 265,797                        | 9,348,027         | —                              | —                 | 265,797                        | 9,348,027         |
| McLean Electric Coop Inc.....       | —                     | 55,340                         | 2,061,367         | 81                             | 1,470             | 55,421                         | 2,062,837         |
| Mor-Gran-Sou Electric Coop Inc..... | —                     | 86,181                         | 3,462,653         | 19                             | 1,903             | 115,374                        | 3,899,541         |
| Mountrail-Williams Elec Coop.....   | —                     | 163,043                        | 5,029,473         | —                              | —                 | 163,043                        | 5,029,473         |
| Nodak Electric Coop Inc.....        | —                     | 560,989                        | 17,400,259        | —                              | —                 | 560,989                        | 17,400,259        |
| North Central Elec Coop Inc.....    | —                     | 175,238                        | 6,335,766         | —                              | —                 | 175,238                        | 6,335,766         |
| Oliver-Mercer Elec Coop Inc.....    | —                     | 175,511                        | 7,143,246         | —                              | —                 | 195,163                        | 7,419,995         |
| R S R Electric Coop Inc.....        | —                     | 165,247                        | 5,809,847         | —                              | —                 | 165,247                        | 5,809,847         |
| Sheyenne Valley Elec Coop Inc.....  | —                     | 79,643                         | 2,529,285         | —                              | —                 | 79,643                         | 2,529,285         |
| Slope Electric Coop Inc.....        | —                     | 63,894                         | 2,202,310         | —                              | —                 | 63,894                         | 2,202,310         |
| Tri-County Electric Coop Inc.....   | —                     | 139,149                        | 4,985,646         | —                              | —                 | 139,149                        | 4,985,646         |
| Verendrye Electric Coop Inc.....    | —                     | 317,565                        | 10,636,456        | —                              | —                 | 317,565                        | 10,636,456        |
| West Plains Electric Coop Inc.....  | —                     | 222,874                        | 8,528,209         | —                              | —                 | 222,874                        | 8,528,209         |
| <b>Ohio</b>                         |                       |                                |                   |                                |                   |                                |                   |
| Adams Rural Electric Coop Inc.....  | —                     | 77,920                         | 2,814,863         | —                              | —                 | 77,920                         | 2,814,863         |
| Buckeye Rural Elec Coop Inc.....    | —                     | 216,498                        | 8,202,043         | —                              | —                 | 216,498                        | 8,202,043         |
| Butler Rural Electric Coop Inc..... | —                     | 181,273                        | 6,966,679         | —                              | —                 | 181,273                        | 6,966,679         |
| Carroll Electric Coop Inc.....      | —                     | 138,265                        | 4,834,585         | —                              | —                 | 138,265                        | 4,834,585         |
| Darke Rural Electric Coop Inc.....  | —                     | 102,765                        | 3,771,332         | —                              | —                 | 102,765                        | 3,771,332         |
| Firelands Electric Coop Inc.....    | —                     | 117,400                        | 3,845,492         | —                              | —                 | 117,400                        | 3,845,492         |
| Frontier Power Co.....              | —                     | 106,941                        | 3,716,107         | —                              | —                 | 106,941                        | 3,716,107         |
| Guernsey-Muskingum El Coop Inc..... | —                     | 160,783                        | 5,696,686         | —                              | —                 | 160,783                        | 5,696,686         |
| Hancock-Wood Electric Coop Inc..... | —                     | 297,378                        | 9,422,811         | —                              | —                 | 297,378                        | 9,422,811         |
| Holmes-Wayne Electric Coop Inc..... | —                     | 254,050                        | 8,563,677         | —                              | —                 | 254,050                        | 8,563,677         |
| Logan Cnty Coop P&L Assn Inc.....   | —                     | 91,538                         | 3,182,835         | —                              | —                 | 91,538                         | 3,182,835         |
| Lorain-Medina R E C Inc.....        | —                     | 203,231                        | 6,856,100         | —                              | —                 | 203,231                        | 6,856,100         |
| Marion Rural Electric Coop Inc..... | —                     | 59,125                         | 2,128,106         | —                              | —                 | 59,125                         | 2,128,106         |
| Midwest Electric Inc.....           | —                     | 184,601                        | 6,366,112         | —                              | —                 | 184,601                        | 6,366,112         |
| Morrow Electric Coop Inc.....       | —                     | 221,361                        | 7,767,336         | —                              | —                 | 221,361                        | 7,767,336         |
| North Central Elec Coop Inc.....    | —                     | 264,419                        | 8,213,814         | —                              | —                 | 264,419                        | 8,213,814         |
| North Western Elec Coop Inc.....    | —                     | 87,274                         | 2,986,138         | —                              | 6,300             | 87,274                         | 2,992,438         |
| Pioneer Rural Elec Coop Inc.....    | —                     | 462,595                        | 14,751,915        | —                              | —                 | 462,595                        | 14,751,915        |
| South Central Power Co.....         | —                     | 1,570,715                      | 555,580,862       | —                              | —                 | 1,570,715                      | 555,580,862       |
| Union Rural Electric Coop Inc.....  | —                     | 423,031                        | 13,295,191        | —                              | —                 | 423,031                        | 13,295,191        |
| United Rural Electric Coop Inc..... | —                     | 58,603                         | 2,026,780         | —                              | —                 | 58,603                         | 2,026,780         |
| Washington Electric Coop Inc.....   | —                     | 85,221                         | 2,953,814         | —                              | —                 | 85,221                         | 2,953,814         |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|--------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                      | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                      | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Oklahoma</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Alfalfa Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Caddo Electric Coop Inc .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Canadian Valley Elec Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Central Rural Electric Coop .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Choctaw Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Cimarron Electric Coop .....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Cookson Hills Elec Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Cotton Electric Coop Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| East Central Okla El Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Harmon Electric Assn Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Indian Electric Coop Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Kay Electric Coop .....              | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Kiwash Electric Coop Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lake Region Electric Coop Inc .....  | —                              | 88                | —                              | —                 | —                              | —                 | —                              |
| Northeast Oklahoma El Coop Inc ..... | 65,392                         | 2,299,602         | —                              | —                 | 359,197                        | 13,939,553        | —                              |
| Northfork Electric Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Northwestern Electric Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Red River Valley Rrl Elec Assn ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Rural Electric Coop Inc .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southeastern Electric Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southwest Rural Elec Assn Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tri-County Electric Coop Inc .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Verdigris Valley Elec Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Oregon</b>                        |                                |                   |                                |                   |                                |                   |                                |
| Blachly-Lane Cnty Coop El Assn ..... | —                              | —                 | 125,794                        | 3,572,754         | —                              | —                 | 57                             |
| Columbia Basin Elec Coop Inc .....   | —                              | —                 | 105,858                        | 2,668,051         | —                              | —                 | —                              |
| Columbia Power Coop Assn Inc .....   | —                              | —                 | —                              | —                 | 28,262                         | 727,649           | —                              |
| Consumers Power Inc .....            | 24                             | 1,426             | 299,136                        | 9,043,378         | —                              | —                 | —                              |
| Coos-Curry Electric Coop Inc .....   | —                              | —                 | 257,904                        | 6,550,604         | —                              | —                 | —                              |
| Douglas Electric Coop Inc .....      | —                              | —                 | 145,064                        | 3,659,671         | —                              | —                 | —                              |
| Harney Electric Coop Inc .....       | —                              | —                 | 209,437                        | 4,614,171         | —                              | —                 | —                              |
| Lane Electric Coop Inc .....         | —                              | —                 | 188,052                        | 5,321,876         | —                              | —                 | —                              |
| Midstate Electric Coop Inc .....     | —                              | —                 | 295,805                        | 7,926,024         | —                              | —                 | —                              |
| Umatilla Electric Coop Assn .....    | —                              | —                 | 583,917                        | 15,273,516        | —                              | —                 | —                              |
| Wasco Electric Coop Inc .....        | —                              | —                 | 86,481                         | 2,340,518         | —                              | —                 | —                              |
| West Oregon Electric Coop Inc .....  | —                              | —                 | 71,566                         | 1,952,490         | —                              | —                 | —                              |
| <b>Pennsylvania</b>                  |                                |                   |                                |                   |                                |                   |                                |
| Adams Electric Coop Inc .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Bedford Rural Elec Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Central Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Claverack Rural Elec Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Northwestern Rural E C A Inc .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Somerset Rural Elec Coop Inc .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southwest Central R E C Corp .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Sullivan County R E C Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tri-County Rural Elec Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| United Electric Coop Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Valley Rural Electric Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Warren Electric Coop Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>South Carolina</b>                |                                |                   |                                |                   |                                |                   |                                |
| Aiken Electric Coop Inc .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Berkeley Electric Coop Inc .....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Black River Electric Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Blue Ridge Electric Coop Inc .....   | —                              | —                 | 36,442                         | 948,138           | —                              | —                 | —                              |
| Broad River Electric Coop Inc .....  | —                              | —                 | 10,477                         | 272,576           | —                              | —                 | —                              |
| Coastal Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Edisto Electric Coop Inc .....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Fairfield Electric Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Horry Electric Coop Inc .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Laurens Electric Coop Inc .....      | —                              | —                 | 27,242                         | 708,768           | —                              | —                 | —                              |
| Little River Electric Coop Inc ..... | —                              | —                 | 10,501                         | 280,129           | —                              | —                 | —                              |

See notes and footnotes at end of table.



**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity |                                |                   |                                |                   |                                |                   |
|--------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                      | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                      | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Oklahoma</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Alfalfa Electric Coop Inc .....      | —                     | 154,780                        | 6,117,548         | —                              | —                 | 154,780                        | 6,117,548         |
| Caddo Electric Coop Inc .....        | —                     | 258,522                        | 10,685,073        | —                              | —                 | 258,522                        | 10,685,073        |
| Canadian Valley Elec Coop Inc .....  | —                     | 337,575                        | 13,454,319        | —                              | —                 | 337,575                        | 13,454,319        |
| Central Rural Electric Coop .....    | —                     | 282,694                        | 10,930,673        | —                              | —                 | 282,694                        | 10,930,673        |
| Choctaw Electric Coop Inc .....      | —                     | 264,189                        | 9,730,383         | —                              | —                 | 264,189                        | 9,730,383         |
| Cimarron Electric Coop .....         | —                     | 190,135                        | 7,646,880         | —                              | —                 | 190,135                        | 7,646,880         |
| Cookson Hills Elec Coop Inc .....    | —                     | 224,009                        | 9,031,501         | —                              | —                 | 224,009                        | 9,031,501         |
| Cotton Electric Coop Inc .....       | —                     | 446,773                        | 16,955,924        | —                              | —                 | 446,773                        | 16,955,924        |
| East Central Okla El Coop Inc .....  | —                     | 402,482                        | 16,205,502        | —                              | —                 | 402,482                        | 16,205,502        |
| Harmon Electric Assn Inc .....       | —                     | 54,205                         | 1,934,167         | —                              | —                 | 54,205                         | 1,934,167         |
| Indian Electric Coop Inc .....       | —                     | 304,982                        | 12,257,667        | —                              | —                 | 304,982                        | 12,257,667        |
| Kay Electric Coop .....              | —                     | 110,153                        | 4,414,435         | —                              | —                 | 110,153                        | 4,414,435         |
| Kiwash Electric Coop Inc .....       | —                     | 78,767                         | 3,213,677         | —                              | —                 | 78,767                         | 3,213,677         |
| Lake Region Electric Coop Inc .....  | —                     | 265,384                        | 11,181,193        | —                              | —                 | 265,384                        | 11,181,193        |
| Northeast Oklahoma El Coop Inc ..... | —                     | 15,525                         | 592,721           | —                              | —                 | 440,114                        | 16,831,876        |
| Northfork Electric Coop Inc .....    | —                     | 80,179                         | 3,178,352         | —                              | —                 | 80,179                         | 3,178,352         |
| Northwestern Electric Coop Inc ..... | —                     | 183,601                        | 7,227,975         | —                              | —                 | 183,601                        | 7,227,975         |
| Red River Valley Rrl Elec Assn ..... | —                     | 214,545                        | 8,056,939         | —                              | —                 | 214,545                        | 8,056,939         |
| Rural Electric Coop Inc .....        | —                     | 222,093                        | 8,419,675         | —                              | —                 | 222,093                        | 8,419,675         |
| Southeastern Electric Coop Inc ..... | —                     | 151,501                        | 6,068,730         | —                              | —                 | 151,501                        | 6,068,730         |
| Southwest Rural Elec Assn Inc .....  | —                     | 101,547                        | 4,111,866         | —                              | —                 | 101,547                        | 4,111,866         |
| Tri-County Electric Coop Inc .....   | —                     | 285,987                        | 10,679,572        | —                              | —                 | 285,987                        | 10,679,572        |
| Verdigris Valley Elec Coop Inc ..... | —                     | 393,014                        | 16,314,721        | —                              | —                 | 393,014                        | 16,314,721        |
| <b>Oregon</b>                        |                       |                                |                   |                                |                   |                                |                   |
| Blachly-Lane Cnty Coop El Assn ..... | 687                   | 21,322                         | 557,956           | —                              | 28,999            | 147,173                        | 4,160,396         |
| Columbia Basin Elec Coop Inc .....   | —                     | —                              | —                 | —                              | —                 | 105,858                        | 2,668,051         |
| Columbia Power Coop Assn Inc .....   | —                     | —                              | —                 | —                              | —                 | 28,262                         | 727,649           |
| Consumers Power Inc .....            | —                     | 72,099                         | 1,078,001         | —                              | —                 | 371,259                        | 10,122,805        |
| Coos-Curry Electric Coop Inc .....   | —                     | 55,139                         | 1,244,128         | 11,453                         | 33,389            | 324,496                        | 7,828,121         |
| Douglas Electric Coop Inc .....      | —                     | —                              | —                 | —                              | —                 | 145,064                        | 3,659,671         |
| Harney Electric Coop Inc .....       | —                     | —                              | —                 | —                              | —                 | 209,437                        | 4,614,171         |
| Lane Electric Coop Inc .....         | —                     | 32,330                         | 691,565           | 9,289                          | 25,844            | 229,671                        | 6,039,285         |
| Midstate Electric Coop Inc .....     | —                     | —                              | —                 | —                              | —                 | 295,805                        | 7,926,024         |
| Umatilla Electric Coop Assn .....    | —                     | 102,396                        | 375,347           | —                              | —                 | 686,313                        | 15,648,863        |
| Wasco Electric Coop Inc .....        | —                     | —                              | —                 | —                              | —                 | 86,481                         | 2,340,518         |
| West Oregon Electric Coop Inc .....  | —                     | —                              | —                 | —                              | —                 | 71,566                         | 1,952,490         |
| <b>Pennsylvania</b>                  |                       |                                |                   |                                |                   |                                |                   |
| Adams Electric Coop Inc .....        | —                     | 367,719                        | 21,549,987        | —                              | —                 | 367,719                        | 21,549,987        |
| Bedford Rural Elec Coop Inc .....    | —                     | 120,178                        | 6,878,269         | —                              | —                 | 120,178                        | 6,878,269         |
| Central Electric Coop Inc .....      | —                     | 215,914                        | 12,496,048        | —                              | —46,557           | 215,914                        | 12,449,491        |
| Claverack Rural Elec Coop Inc .....  | —                     | —                              | —                 | 171,055                        | 9,689,328         | 171,055                        | 9,689,328         |
| Northwestern Rural E C A Inc .....   | —                     | 213,990                        | 11,866,820        | —                              | —                 | 213,990                        | 11,866,820        |
| Somerset Rural Elec Coop Inc .....   | —                     | 174,889                        | 9,862,190         | —                              | —                 | 174,889                        | 9,862,190         |
| Southwest Central R E C Corp .....   | —                     | 282,590                        | 16,938,020        | —                              | —                 | 282,590                        | 16,938,020        |
| Sullivan County R E C Inc .....      | —                     | 46,937                         | 2,772,093         | —                              | 17,676            | 46,937                         | 2,789,769         |
| Tri-County Rural Elec Coop Inc ..... | —                     | 142,011                        | 8,049,041         | —                              | —                 | 142,011                        | 8,049,041         |
| United Electric Coop Inc .....       | —                     | 138,206                        | 7,763,055         | —                              | —                 | 138,206                        | 7,763,055         |
| Valley Rural Electric Coop Inc ..... | —                     | 215,454                        | 12,459,957        | —                              | —                 | 215,454                        | 12,459,957        |
| Warren Electric Coop Inc .....       | —                     | 50,364                         | 2,789,662         | —                              | —                 | 50,364                         | 2,789,662         |
| <b>South Carolina</b>                |                       |                                |                   |                                |                   |                                |                   |
| Aiken Electric Coop Inc .....        | —                     | 710,397                        | 28,425,954        | —                              | —                 | 710,397                        | 28,425,954        |
| Berkeley Electric Coop Inc .....     | —                     | 1,108,278                      | 46,373,393        | —                              | —                 | 1,108,278                      | 46,373,393        |
| Black River Electric Coop Inc .....  | —                     | 504,360                        | 20,965,535        | —                              | —                 | 504,360                        | 20,965,535        |
| Blue Ridge Electric Coop Inc .....   | —                     | 685,279                        | 38,322,702        | —                              | —                 | 721,721                        | 39,270,840        |
| Broad River Electric Coop Inc .....  | —                     | 230,982                        | 13,174,110        | —                              | —                 | 241,459                        | 13,446,686        |
| Coastal Electric Coop Inc .....      | —                     | 138,479                        | 5,857,097         | —                              | —                 | 138,479                        | 5,857,097         |
| Edisto Electric Coop Inc .....       | —                     | 259,783                        | 10,953,636        | —                              | —                 | 259,783                        | 10,953,636        |
| Fairfield Electric Coop Inc .....    | —                     | 538,046                        | 20,647,758        | —                              | —                 | 538,046                        | 20,647,758        |
| Horry Electric Coop Inc .....        | —                     | 595,186                        | 26,382,322        | —                              | —                 | 595,186                        | 26,382,322        |
| Laurens Electric Coop Inc .....      | —                     | 580,949                        | 32,916,784        | —                              | —                 | 608,191                        | 33,625,552        |
| Little River Electric Coop Inc ..... | —                     | 143,789                        | 8,105,194         | —                              | —                 | 154,290                        | 8,385,323         |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|--------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                      | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                      | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>South Carolina</b>                |                                |                   |                                |                   |                                |                   |                                |
| Lynches River Elec Coop Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Marlboro Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Mid-Carolina Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Newberry Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Palmetto Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Pee Dee Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Santee Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tri-County Electric Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| York Electric Coop Inc.....          | —                              | —                 | 16,831                         | 437,896           | —                              | —                 | —                              |
| <b>South Dakota</b>                  |                                |                   |                                |                   |                                |                   |                                |
| Black Hills Electric Coop Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Bon Homme Yankton El Assn Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Butte Electric Coop Inc.....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Cam Wal Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Charles Mix Electric Assn Inc .....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Cherry-Todd Electric Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Clay-Union Electric Corp.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Codington-Clark Elec Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Dakota Energy Coop Inc .....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Douglas Electric Coop Inc .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| FEM Electric Assn Inc.....           | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Grand Electric Coop Inc.....         | —                              | —                 | 38,510                         | 559,083           | —                              | —                 | —                              |
| H-D Electric Coop Inc.....           | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Intercounty Electric Assn Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Kingsbury Electric Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lake Region Electric Assn Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| LaCreek Electric Assn Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lincoln-Union Electric Co .....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| McCook Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Moreau-Grand Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Northern Electric Coop Inc.....      | —                              | —                 | 7,697                          | 110,335           | —                              | —                 | —                              |
| Oahe Electric Coop Inc .....         | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Rosebud Electric Coop Inc.....       | —                              | —                 | 66,053                         | 1,003,516         | —                              | —                 | —                              |
| Sioux Valley Empire E A Inc .....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Spink Electric Coop Inc .....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Tri-County Electric Assn Inc .....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Turner-Hutchinson El Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Union County Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| West Central Electric Coop Inc ..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| West River Electric Assn Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Whetstone Valley Elec Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Tennessee</b>                     |                                |                   |                                |                   |                                |                   |                                |
| Appalachian Electric Coop.....       | —                              | —                 | 832,284                        | 35,618,114        | —                              | —                 | —                              |
| Caney Fork Electric Coop Inc.....    | —                              | —                 | 561,947                        | 24,698,741        | —                              | —                 | —                              |
| Chickasaw Electric Coop Inc.....     | —                              | —                 | 328,787                        | 15,677,871        | —                              | —                 | —                              |
| Cumberland Elec Member Corp.....     | —                              | —                 | 1,700,365                      | 72,366,439        | —                              | —                 | —                              |
| Duck River Elec Member Corp.....     | —                              | —                 | 1,249,835                      | 54,780,723        | —                              | —                 | —                              |
| Forked Deer Electric Coop Inc .....  | —                              | —                 | 205,748                        | 8,874,297         | —                              | —                 | —                              |
| Fort Loudoun Electric Coop.....      | —                              | —                 | 438,081                        | 19,720,517        | —                              | —                 | —                              |
| Gibson Electric Members Corp.....    | —                              | —                 | 760,525                        | 33,984,250        | —                              | —                 | —                              |
| Holston Electric Coop Inc .....      | —                              | —                 | 698,733                        | 28,075,653        | —                              | —                 | —                              |
| Meriwether Lewis Electric Coop ..... | —                              | —                 | 727,980                        | 31,696,961        | —                              | —                 | —                              |
| Middle Tennessee E M C.....          | —                              | —                 | 3,177,115                      | 132,984,686       | —                              | —                 | —                              |
| Mountain Electric Coop Inc.....      | —                              | —                 | 553,140                        | 22,446,891        | —                              | —                 | —                              |
| Pickwick Electric Coop .....         | —                              | —                 | 398,373                        | 17,831,998        | —                              | —                 | —                              |
| Plateau Electric Coop .....          | —                              | —                 | 271,169                        | 12,423,331        | —                              | —                 | —                              |
| Powell Valley Electric Coop.....     | —                              | —                 | 471,346                        | 20,181,296        | —                              | —                 | —                              |
| Sequachee Valley Electric Coop.....  | —                              | —                 | 721,444                        | 31,068,936        | —                              | —                 | —                              |
| Southwest Tennessee E M C.....       | —                              | —                 | 890,741                        | 39,328,774        | —                              | —                 | —                              |
| Tennessee Valley Electric Coop.....  | —                              | —                 | 351,422                        | 15,845,915        | —                              | —                 | —                              |
| Tri-County Elec Member Corp.....     | —                              | —                 | 1,064,256                      | 46,050,277        | —                              | —                 | —                              |
| Upper Cumberland E M C.....          | —                              | —                 | 865,986                        | 38,038,819        | —                              | —                 | —                              |
| Volunteer Electric Coop .....        | —                              | —                 | 1,750,557                      | 75,797,239        | —                              | —                 | —                              |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity |                                |                   |                                |                   |                                |                   |
|--------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                      | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                      | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>South Carolina</b>                |                       |                                |                   |                                |                   |                                |                   |
| Lynchess River Elec Coop Inc .....   | —                     | 266,372                        | 10,787,399        | —                              | —                 | 266,372                        | 10,787,399        |
| Marlboro Electric Coop Inc.....      | —                     | 646,625                        | 19,423,285        | —                              | —                 | 646,625                        | 19,423,285        |
| Mid-Carolina Electric Coop Inc.....  | —                     | 705,880                        | 29,390,248        | —                              | —                 | 705,880                        | 29,390,248        |
| Newberry Electric Coop Inc.....      | —                     | 202,028                        | 7,856,541         | —                              | —                 | 202,028                        | 7,856,541         |
| Palmetto Electric Coop Inc.....      | —                     | 973,720                        | 41,922,874        | —                              | —                 | 973,720                        | 41,922,874        |
| Pee Dee Electric Coop Inc .....      | —                     | 734,493                        | 28,007,492        | —                              | —                 | 734,493                        | 28,007,492        |
| Santee Electric Coop Inc.....        | —                     | 914,962                        | 36,205,866        | —                              | —                 | 914,962                        | 36,205,866        |
| Tri-County Electric Coop Inc.....    | —                     | 251,370                        | 10,464,672        | —                              | —                 | 251,370                        | 10,464,672        |
| York Electric Coop Inc.....          | —                     | 440,063                        | 24,552,916        | —                              | -39,943           | 456,894                        | 24,950,869        |
| <b>South Dakota</b>                  |                       |                                |                   |                                |                   |                                |                   |
| Black Hills Electric Coop Inc .....  | —                     | 96,525                         | 3,005,178         | —                              | —                 | 96,525                         | 3,005,178         |
| Bon Homme Yankton El Assn Inc .....  | —                     | 74,514                         | 2,662,755         | —                              | —                 | 74,514                         | 2,662,755         |
| Butte Electric Coop Inc.....         | —                     | 68,539                         | 2,244,496         | —                              | —                 | 68,539                         | 2,244,496         |
| Cam Wal Electric Coop Inc .....      | —                     | 44,679                         | 1,710,395         | —                              | 1,623             | 44,679                         | 1,712,018         |
| Charles Mix Electric Assn Inc .....  | —                     | 43,664                         | 1,536,876         | —                              | —                 | 43,664                         | 1,536,876         |
| Cherry-Todd Electric Coop Inc.....   | —                     | 90,807                         | 3,176,222         | 45                             | 1,554             | 90,852                         | 3,177,776         |
| Clay-Union Electric Corp.....        | —                     | 57,666                         | 2,022,561         | —                              | —                 | 57,666                         | 2,022,561         |
| Codington-Clark Elec Coop Inc.....   | —                     | 76,577                         | 2,663,115         | —                              | —                 | 76,577                         | 2,663,115         |
| Dakota Energy Coop Inc .....         | —                     | 74,245                         | 2,691,072         | —                              | —                 | 74,245                         | 2,691,072         |
| Douglas Electric Coop Inc .....      | —                     | 20,985                         | 762,947           | —                              | —                 | 20,985                         | 762,947           |
| FEM Electric Assn Inc.....           | —                     | 48,865                         | 1,722,935         | —                              | —                 | 48,865                         | 1,722,935         |
| Grand Electric Coop Inc.....         | —                     | 125,942                        | 3,337,753         | —                              | —                 | 164,452                        | 3,896,836         |
| H-D Electric Coop Inc.....           | —                     | 63,796                         | 2,284,659         | —                              | —                 | 63,796                         | 2,284,659         |
| Intercounty Electric Assn Inc.....   | —                     | 69,141                         | 2,548,114         | —                              | —                 | 69,141                         | 2,548,114         |
| Kingsbury Electric Coop Inc.....     | —                     | 21,752                         | 803,679           | —                              | —                 | 21,752                         | 803,679           |
| Lake Region Electric Assn Inc.....   | —                     | 67,373                         | 2,296,280         | —                              | —                 | 67,373                         | 2,296,280         |
| LaCreek Electric Assn Inc.....       | —                     | 84,469                         | 2,955,078         | —                              | —                 | 84,469                         | 2,955,078         |
| Lincoln-Union Electric Co .....      | —                     | 88,336                         | 3,030,021         | 1                              | 51                | 88,337                         | 3,030,072         |
| McCook Electric Coop Inc.....        | —                     | 32,116                         | 1,187,297         | —                              | —                 | 32,116                         | 1,187,297         |
| Moreau-Grand Electric Coop Inc.....  | —                     | 82,296                         | 2,847,778         | —                              | —                 | 82,296                         | 2,847,778         |
| Northern Electric Coop Inc .....     | —                     | 113,900                        | 3,880,435         | 210                            | 2,598             | 121,807                        | 3,993,368         |
| Oahe Electric Coop Inc.....          | —                     | 54,795                         | 1,872,149         | —                              | —                 | 54,795                         | 1,872,149         |
| Rosebud Electric Coop Inc.....       | —                     | 27,414                         | 1,085,506         | —                              | —                 | 93,467                         | 2,089,022         |
| Sioux Valley Empire E A Inc.....     | —                     | 365,733                        | 12,936,016        | 37                             | 1,913             | 365,770                        | 12,937,929        |
| Spink Electric Coop Inc .....        | —                     | 30,547                         | 1,082,713         | —                              | —                 | 30,547                         | 1,082,713         |
| Tri-County Electric Assn Inc .....   | —                     | 72,704                         | 2,559,437         | —                              | -37,150           | 72,704                         | 2,522,287         |
| Turner-Hutchinson El Coop Inc.....   | —                     | 92,037                         | 3,348,948         | —                              | —                 | 92,037                         | 3,348,948         |
| Union County Electric Coop Inc.....  | —                     | 19,529                         | 708,454           | —                              | -34,048           | 19,529                         | 674,406           |
| West Central Electric Coop Inc ..... | —                     | 115,132                        | 4,026,039         | —                              | —                 | 115,132                        | 4,026,039         |
| West River Electric Assn Inc.....    | —                     | 161,026                        | 5,350,301         | —                              | —                 | 161,026                        | 5,350,301         |
| Whetstone Valley Elec Coop Inc.....  | —                     | 65,505                         | 2,379,294         | —                              | —                 | 65,505                         | 2,379,294         |
| <b>Tennessee</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Appalachian Electric Coop .....      | —                     | —                              | —                 | —                              | —                 | 832,284                        | 35,618,114        |
| Caney Fork Electric Coop Inc.....    | —                     | —                              | —                 | —                              | —                 | 561,947                        | 24,698,741        |
| Chickasaw Electric Coop Inc.....     | —                     | —                              | —                 | —                              | —                 | 328,787                        | 15,677,871        |
| Cumberland Elec Member Corp.....     | —                     | —                              | —                 | —                              | —                 | 1,700,365                      | 72,366,439        |
| Duck River Elec Member Corp.....     | —                     | —                              | —                 | 271                            | 4,548             | 1,250,106                      | 54,785,271        |
| Forked Deer Electric Coop Inc .....  | —                     | —                              | —                 | —                              | —                 | 205,748                        | 8,874,297         |
| Fort Loudoun Electric Coop.....      | —                     | —                              | —                 | —                              | —                 | 438,081                        | 19,720,517        |
| Gibson Electric Members Corp.....    | —                     | —                              | —                 | —                              | —                 | 760,525                        | 33,984,250        |
| Holston Electric Coop Inc .....      | —                     | —                              | —                 | —                              | —                 | 698,733                        | 28,075,653        |
| Meriwether Lewis Electric Coop ..... | —                     | —                              | —                 | —                              | —                 | 727,980                        | 31,696,961        |
| Middle Tennessee E M C.....          | —                     | —                              | —                 | —                              | —                 | 3,177,115                      | 132,984,686       |
| Mountain Electric Coop Inc .....     | —                     | —                              | —                 | —                              | —                 | 553,140                        | 22,446,891        |
| Pickwick Electric Coop .....         | —                     | —                              | —                 | —                              | —                 | 398,373                        | 17,831,998        |
| Plateau Electric Coop .....          | —                     | —                              | —                 | 82                             | 1,459             | 271,251                        | 12,424,790        |
| Powell Valley Electric Coop.....     | —                     | —                              | —                 | —                              | —                 | 471,346                        | 20,181,296        |
| Sequachee Valley Electric Coop.....  | —                     | —                              | —                 | —                              | —                 | 721,444                        | 31,068,936        |
| Southwest Tennessee E M C.....       | —                     | —                              | —                 | —                              | —                 | 890,741                        | 39,328,774        |
| Tennessee Valley Electric Coop.....  | —                     | —                              | —                 | —                              | —                 | 351,422                        | 15,845,915        |
| Tri-County Elec Member Corp.....     | —                     | —                              | —                 | —                              | —                 | 1,064,256                      | 46,050,277        |
| Upper Cumberland E M C.....          | —                     | —                              | —                 | —                              | —                 | 865,986                        | 38,038,819        |
| Volunteer Electric Coop .....        | —                     | —                              | —                 | —                              | —                 | 1,750,557                      | 75,797,239        |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower     | Source of Electricity          |                   |                                |                   |                                |                   |                                |
|-------------------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|
|                                     | Investor-Owned                 |                   | Federal                        |                   | State and Other Government     |                   | Municipal                      |
|                                     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) |
| <b>Texas</b>                        |                                |                   |                                |                   |                                |                   |                                |
| B-K Electric Coop Inc.....          | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Bailey County Elec Coop Assn.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Bartlett Electric Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Belfalls Electric Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Bowie-Cass Electric Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Central Texas Elec Coop Inc.....    | —                              | —                 | —                              | —                 | 318,696                        | 13,943,268        | —                              |
| Cherokee County Elec Coop Assn..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Coleman County Elec Coop Inc.....   | 111,019                        | 4,209,326         | —                              | —                 | —                              | —                 | —                              |
| Comanche County Elec Coop Assn..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Deep East Texas Elec Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Dewitt Electric Coop Inc.....       | —                              | —                 | —                              | —                 | 76,738                         | 3,154,628         | —                              |
| Erath County Elec Coop Assn.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Fannin County Electric Coop.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Gate City Electric Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Grayson-Collin Elec Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Greenbelt Electric Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Hamilton County Elec Coop Assn..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Houston County Elec Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| J-A-C Electric Coop Inc.....        | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Jackson Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Jasper-Newton Elec Coop Inc.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Johnson County Elec Coop Assn.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Karnes Electric Coop Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Kimble Electric Coop Inc.....       | 16,137                         | 696,499           | —                              | —                 | 36,419                         | 1,451,296         | —                              |
| Lamar County Elec Coop Assn.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lamb County Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Lighthouse Electric Coop Inc.....   | 13,978                         | 581,045           | —                              | —                 | —                              | —                 | —                              |
| Lyntegar Electric Coop Inc.....     | 513,786                        | 20,350,499        | —                              | —                 | —                              | —                 | —                              |
| Magic Valley Electric Coop Inc..... | 714,352                        | 32,224,595        | —                              | —                 | —                              | —                 | —                              |
| McCulloch Electric Coop Inc.....    | —                              | —                 | —                              | —                 | 72,449                         | 2,881,301         | —                              |
| McLennan County Elec Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Medina Electric Coop Inc.....       | 78,873                         | 3,442,190         | —                              | —                 | —                              | —                 | —                              |
| Midwest Electric Coop Inc.....      | 77,271                         | 3,324,577         | —                              | —                 | —                              | —                 | —                              |
| Navarro County Elec Coop Inc.....   | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| New Era Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| North Plains Electric Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Nueces Electric Coop Inc.....       | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Panola-Harrison Elec Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Rio Grande Electric Coop Inc.....   | 118,053                        | 5,205,499         | —                              | —                 | —                              | —                 | —                              |
| Rita Blanca Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Rusk County Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| San Patricio Electric Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| South Plains Electric Coop Inc..... | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Southwest Texas Elec Coop Inc.....  | 169,083                        | 6,187,255         | —                              | —                 | —                              | —                 | —                              |
| Swisher Electric Coop Inc.....      | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Taylor Electric Coop Inc.....       | 201,217                        | 8,744,958         | —                              | —                 | —                              | —                 | —                              |
| Upshur Rural Elec Coop Corp.....    | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Victoria Electric Coop Inc.....     | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| Wood County Electric Coop Inc.....  | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| <b>Utah</b>                         |                                |                   |                                |                   |                                |                   |                                |
| Garkane Power Assn Inc.....         | —                              | —                 | 69,387                         | 1,367,036         | —                              | —                 | —                              |
| <b>Vermont</b>                      |                                |                   |                                |                   |                                |                   |                                |
| Washington Electric Coop Inc.....   | 11,150                         | 1,587,709         | —                              | —                 | 9,249                          | 142,868           | 9,510                          |
| <b>Virginia</b>                     |                                |                   |                                |                   |                                |                   |                                |
| A & N Electric Coop.....            | —                              | —                 | —                              | —                 | —                              | —                 | —                              |
| BARC Electric Coop Inc.....         | —                              | —                 | 15,429                         | 269,362           | —                              | —                 | —                              |
| Central Virginia Electric Coop..... | 266,854                        | 12,926,090        | 33,955                         | 626,091           | —                              | —                 | —                              |
| Community Electric Coop.....        | —                              | —                 | 18,053                         | 303,859           | —                              | —                 | —                              |
| Craig-Botetourt Electric Coop.....  | 18,408                         | 861,976           | 7,221                          | 124,881           | —                              | —                 | —                              |
| Mecklenburg Electric Coop Inc.....  | —                              | —                 | 48,414                         | 892,708           | —                              | —                 | —                              |
| Northern Neck Elec Coop Inc.....    | —                              | —                 | 16,832                         | 310,370           | —                              | —                 | —                              |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower     | Source of Electricity |                                |                   |                                |                   |                                |                   |
|-------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                     | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                     | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Texas</b>                        |                       |                                |                   |                                |                   |                                |                   |
| B-K Electric Coop Inc.....          | —                     | 94,733                         | 3,610,569         | —                              | —                 | 94,733                         | 3,610,569         |
| Bailey County Elec Coop Assn.....   | —                     | 211,449                        | 8,757,190         | —                              | —                 | 211,449                        | 8,757,190         |
| Bartlett Electric Coop Inc.....     | —                     | 107,624                        | 4,589,729         | —                              | —                 | 107,624                        | 4,589,729         |
| Belfalls Electric Coop Inc.....     | —                     | 67,596                         | 2,786,627         | —                              | —                 | 67,596                         | 2,786,627         |
| Bowie-Cass Electric Coop Inc.....   | —                     | 537,741                        | 16,142,947        | —                              | —                 | 537,741                        | 16,142,947        |
| Central Texas Elec Coop Inc.....    | —                     | —                              | —                 | —                              | —                 | 318,696                        | 13,943,268        |
| Cherokee County Elec Coop Assn..... | —                     | 231,968                        | 10,927,002        | —                              | —                 | 231,968                        | 10,927,002        |
| Coleman County Elec Coop Inc.....   | —                     | —                              | —                 | —                              | —                 | 111,019                        | 4,209,326         |
| Comanche County Elec Coop Assn..... | —                     | 169,215                        | 6,784,244         | —                              | —                 | 169,215                        | 6,784,244         |
| Deep East Texas Elec Coop Inc.....  | —                     | 651,972                        | 26,936,154        | —                              | —                 | 651,972                        | 26,936,154        |
| Dewitt Electric Coop Inc.....       | —                     | —                              | —                 | —                              | —                 | 76,738                         | 3,154,628         |
| Erath County Elec Coop Assn.....    | —                     | 293,737                        | 12,099,770        | —                              | —                 | 293,737                        | 12,099,770        |
| Fannin County Electric Coop.....    | —                     | 83,350                         | 4,456,242         | —                              | 58,000            | 83,350                         | 4,514,242         |
| Gate City Electric Coop Inc.....    | —                     | 36,986                         | 1,382,607         | —                              | —                 | 36,986                         | 1,382,607         |
| Grayson-Collin Elec Coop Inc.....   | —                     | 310,132                        | 16,378,670        | —                              | —                 | 310,132                        | 16,378,670        |
| Greenbelt Electric Coop Inc.....    | —                     | 41,062                         | 1,651,131         | —                              | —                 | 41,062                         | 1,651,131         |
| Hamilton County Elec Coop Assn..... | —                     | 145,579                        | 6,105,056         | —                              | —                 | 145,579                        | 6,105,056         |
| Houston County Elec Coop Inc.....   | —                     | 229,148                        | 10,359,520        | —                              | —                 | 229,148                        | 10,359,520        |
| J-A-C Electric Coop Inc.....        | —                     | 93,227                         | 3,639,828         | —                              | —                 | 93,227                         | 3,639,828         |
| Jackson Electric Coop Inc.....      | —                     | 159,617                        | 8,324,889         | —                              | —                 | 159,617                        | 8,324,889         |
| Jasper-Newton Elec Coop Inc.....    | —                     | 354,119                        | 14,133,322        | —                              | —                 | 354,119                        | 14,133,322        |
| Johnson County Elec Coop Assn.....  | —                     | 737,531                        | 30,734,230        | —                              | —                 | 737,531                        | 30,734,230        |
| Karnes Electric Coop Inc.....       | —                     | 187,612                        | 9,445,102         | —                              | —                 | 187,612                        | 9,445,102         |
| Kimble Electric Coop Inc.....       | —                     | —                              | —                 | —                              | —                 | 52,556                         | 2,147,795         |
| Lamar County Elec Coop Assn.....    | —                     | 120,083                        | 6,388,909         | —                              | —                 | 120,083                        | 6,388,909         |
| Lamb County Electric Coop Inc.....  | —                     | 269,201                        | 11,349,836        | —                              | —                 | 269,201                        | 11,349,836        |
| Lighthouse Electric Coop Inc.....   | —                     | 225,630                        | 9,567,534         | —                              | —                 | 239,608                        | 10,148,579        |
| Lyntegar Electric Coop Inc.....     | —                     | —                              | —                 | —                              | —                 | 513,786                        | 20,350,499        |
| Magic Valley Electric Coop Inc..... | —                     | —                              | —                 | —                              | —                 | 714,352                        | 32,224,595        |
| McCulloch Electric Coop Inc.....    | —                     | —                              | —                 | —                              | —                 | 72,449                         | 2,881,301         |
| McLennan County Elec Coop Inc.....  | —                     | 192,208                        | 8,100,428         | —                              | —                 | 192,208                        | 8,100,428         |
| Medina Electric Coop Inc.....       | —                     | 342,277                        | 10,834,790        | —                              | —                 | 421,150                        | 14,276,980        |
| Midwest Electric Coop Inc.....      | —                     | 69,429                         | 2,610,405         | —                              | —                 | 146,700                        | 5,934,982         |
| Navarro County Elec Coop Inc.....   | —                     | 245,077                        | 9,900,677         | —                              | —                 | 245,077                        | 9,900,677         |
| New Era Electric Coop Inc.....      | —                     | 311,461                        | 15,978,223        | —                              | —                 | 311,461                        | 15,978,223        |
| North Plains Electric Coop Inc..... | —                     | 133,100                        | 5,051,417         | 6                              | 139               | 133,106                        | 5,051,556         |
| Nueces Electric Coop Inc.....       | —                     | 181,878                        | 9,011,778         | —                              | —                 | 181,878                        | 9,011,778         |
| Panola-Harrison Elec Coop Inc.....  | —                     | 265,175                        | 8,004,472         | —                              | —                 | 265,175                        | 8,004,472         |
| Rio Grande Electric Coop Inc.....   | —                     | 25,717                         | 1,129,415         | —                              | —                 | 143,770                        | 6,334,914         |
| Rita Blanca Electric Coop Inc.....  | —                     | 148,107                        | 5,742,865         | —                              | —                 | 148,107                        | 5,742,865         |
| Rusk County Electric Coop Inc.....  | —                     | 331,890                        | 10,032,093        | —                              | —                 | 331,890                        | 10,032,093        |
| San Patricio Electric Coop Inc..... | —                     | 149,622                        | 7,426,327         | —                              | —                 | 149,622                        | 7,426,327         |
| South Plains Electric Coop Inc..... | —                     | 519,214                        | 21,612,736        | —                              | —                 | 519,214                        | 21,612,736        |
| Southwest Texas Elec Coop Inc.....  | —                     | —                              | —                 | —                              | —                 | 169,083                        | 6,187,255         |
| Swisher Electric Coop Inc.....      | —                     | 202,644                        | 8,388,865         | —                              | —                 | 202,644                        | 8,388,865         |
| Taylor Electric Coop Inc.....       | —                     | —                              | —                 | —                              | —                 | 201,217                        | 8,744,958         |
| Upshur Rural Elec Coop Corp.....    | —                     | 636,132                        | 18,609,817        | —                              | —                 | 636,132                        | 18,609,817        |
| Victoria Electric Coop Inc.....     | —                     | 263,737                        | 13,880,015        | —                              | —                 | 263,737                        | 13,880,015        |
| Wood County Electric Coop Inc.....  | —                     | 453,058                        | 15,260,167        | —                              | —                 | 453,058                        | 15,260,167        |
| <b>Utah</b>                         |                       |                                |                   |                                |                   |                                |                   |
| Garkane Power Assn Inc.....         | —                     | 18,853                         | 585,307           | 2,351                          | 309,760           | 90,591                         | 2,262,103         |
| <b>Vermont</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Washington Electric Coop Inc.....   | 677,169               | —                              | —                 | 35,060                         | 1,302,334         | 64,969                         | 3,710,080         |
| <b>Virginia</b>                     |                       |                                |                   |                                |                   |                                |                   |
| A & N Electric Coop.....            | —                     | 181,810                        | 7,969,921         | —                              | —                 | 181,810                        | 7,969,921         |
| BARC Electric Coop Inc.....         | —                     | 141,327                        | 6,717,130         | —                              | -354,991          | 156,756                        | 6,631,501         |
| Central Virginia Electric Coop..... | —                     | —                              | —                 | 171,774                        | 4,344,064         | 472,583                        | 17,896,245        |
| Community Electric Coop.....        | —                     | 132,542                        | 7,054,758         | —                              | —                 | 150,595                        | 7,358,617         |
| Craig-Botetourt Electric Coop.....  | —                     | —                              | —                 | 45,522                         | 1,623,375         | 71,151                         | 2,610,232         |
| Mecklenburg Electric Coop Inc.....  | —                     | 419,736                        | 19,922,639        | —                              | —                 | 468,150                        | 20,815,347        |
| Northern Neck Elec Coop Inc.....    | —                     | 177,209                        | 9,359,683         | —                              | —                 | 194,041                        | 9,670,053         |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity       |                   |                             |                   |                             |                   |                             |
|--------------------------------------|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|
|                                      | Investor-Owned              |                   | Federal                     |                   | State and Other Government  |                   | Municipal                   |
|                                      | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) | Cost<br>(dollars) | Purchases<br>(thousand kWh) |
| <b>Virginia</b>                      |                             |                   |                             |                   |                             |                   |                             |
| Northern Virginia Elec Coop .....    | —                           | —                 | 13,947                      | 246,073           | —                           | —                 | —                           |
| Prince George Electric Coop .....    | —                           | —                 | 10,798                      | 195,515           | —                           | —                 | —                           |
| Rappahannock Electric Coop .....     | —                           | —                 | 95,715                      | 2,138,180         | —                           | —                 | —                           |
| Shenandoah Valley Elec Coop .....    | —                           | —                 | 42,414                      | 782,063           | —                           | —                 | —                           |
| Southside Electric Coop Inc .....    | —                           | —                 | 62,204                      | 1,146,969         | —                           | —                 | —                           |
| <b>Washington</b>                    |                             |                   |                             |                   |                             |                   |                             |
| Benton Rural Electric Assn .....     | —                           | —                 | 416,281                     | 10,471,447        | —                           | —                 | —                           |
| Columbia Rural Elec Assn Inc .....   | 948                         | 33,723            | 219,150                     | 5,054,486         | —                           | —                 | —                           |
| Nespelem Valley Elec Coop Inc .....  | —                           | —                 | 42,680                      | 1,158,643         | —                           | —                 | —                           |
| Okanogan County Elec Coop Inc .....  | —                           | —                 | 42,416                      | 1,156,712         | —                           | —                 | —                           |
| Orcas Power & Light Co .....         | —                           | —                 | 167,085                     | 4,675,222         | —                           | —                 | —                           |
| Tanner Electric Coop .....           | —                           | —                 | 51,260                      | 1,405,663         | —                           | —                 | —                           |
| <b>West Virginia</b>                 |                             |                   |                             |                   |                             |                   |                             |
| Harrison Rural Elec Assn Inc .....   | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| <b>Wisconsin</b>                     |                             |                   |                             |                   |                             |                   |                             |
| Adams-Columbia Electric Coop .....   | 352,701                     | 11,180,703        | —                           | —                 | —                           | —                 | —                           |
| Bayfield Electric Coop Inc .....     | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Central Wisconsin Elec Coop .....    | 81,943                      | 2,572,111         | —                           | —                 | —                           | —                 | —                           |
| Chippewa Valley Electric Coop .....  | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Clark Electric Coop .....            | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Crawford Electric Coop .....         | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Dunn County Electric Coop .....      | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Grant-Lafayette Electric Coop .....  | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Head of Lakes Electric Coop .....    | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Jackson Electric Coop Inc .....      | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Jump River Electric Coop Inc .....   | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Oakdale Electric Coop .....          | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Oconto Electric Coop .....           | 84,649                      | 2,946,960         | —                           | —                 | —                           | —                 | —                           |
| Price Electric Coop Inc .....        | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Richland Electric Coop .....         | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Rock County Electric Coop Assn ..... | 68,866                      | 2,273,325         | —                           | —                 | —                           | —                 | —                           |
| St Croix Electric Coop .....         | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Vernon Electric Coop .....           | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Washington Island El Coop Inc .....  | 9,106                       | 321,887           | —                           | —                 | —                           | —                 | —                           |
| <b>Wyoming</b>                       |                             |                   |                             |                   |                             |                   |                             |
| Big Horn Rural Electric Co .....     | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Bridger Valley Elec Assn Inc .....   | —                           | —                 | 39,411                      | 761,961           | —                           | —                 | —                           |
| Carbon Power & Light Inc .....       | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Garland Light & Power Co .....       | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Hot Springs Rural El Assn Inc .....  | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Niobrara Electric Assn Inc .....     | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Riverton Valley Elec Assn Inc .....  | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Rural Electric Co .....              | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Sheridan-Johnson Rrl Elec Assn ..... | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Tri-County Electric Assn Inc .....   | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Wheatland Rural Elec Assn Inc .....  | —                           | —                 | —                           | —                 | —                           | —                 | —                           |
| Wynolec Co .....                     | —                           | —                 | —                           | —                 | —                           | —                 | —                           |

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)**

| State /<br>Cooperative Borrower      | Source of Electricity |                                |                   |                                |                   |                                |                   |
|--------------------------------------|-----------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
|                                      | Municipal             | Cooperative                    |                   | Other <sup>1</sup>             |                   | Total                          |                   |
|                                      | Cost<br>(dollars)     | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) | Purchases<br>(thousand<br>kWh) | Cost<br>(dollars) |
| <b>Virginia</b>                      |                       |                                |                   |                                |                   |                                |                   |
| Northern Virginia Elec Coop .....    | —                     | 1,901,161                      | 97,061,185        | —                              | —                 | 1,915,108                      | 97,307,258        |
| Prince George Electric Coop .....    | —                     | 167,054                        | 8,768,785         | —                              | —                 | 177,852                        | 8,964,300         |
| Rappahannock Electric Coop .....     | —                     | 1,830,525                      | 77,605,392        | —                              | —                 | 1,926,240                      | 79,743,572        |
| Shenandoah Valley Elec Coop .....    | —                     | 583,888                        | 26,643,579        | —                              | —                 | 626,302                        | 27,425,642        |
| Southside Electric Coop Inc .....    | —                     | 569,803                        | 29,288,880        | —                              | —                 | 632,007                        | 30,435,849        |
| <b>Washington</b>                    |                       |                                |                   |                                |                   |                                |                   |
| Benton Rural Electric Assn .....     | —                     | —                              | 59,628            | —                              | —                 | 416,281                        | 10,531,075        |
| Columbia Rural Elec Assn Inc .....   | —                     | —                              | —                 | —                              | —                 | 220,098                        | 5,088,209         |
| Nespelem Valley Elec Coop Inc .....  | —                     | —                              | —                 | 1,134                          | 3,339             | 43,814                         | 1,161,982         |
| Okanogan County Elec Coop Inc .....  | —                     | —                              | —                 | —                              | —                 | 42,416                         | 1,156,712         |
| Orcas Power & Light Co .....         | —                     | —                              | —                 | 73                             | 1,280             | 167,158                        | 4,676,502         |
| Tanner Electric Coop .....           | —                     | —                              | —                 | 16                             | 468               | 51,276                         | 1,406,131         |
| <b>West Virginia</b>                 |                       |                                |                   |                                |                   |                                |                   |
| Harrison Rural Elec Assn Inc .....   | —                     | —                              | —                 | 53,294                         | 2,516,216         | 53,294                         | 2,516,216         |
| <b>Wisconsin</b>                     |                       |                                |                   |                                |                   |                                |                   |
| Adams-Columbia Electric Coop .....   | —                     | —                              | —                 | 96                             | 3,194             | 352,797                        | 11,183,897        |
| Bayfield Electric Coop Inc .....     | —                     | 68,489                         | 2,681,898         | —                              | —                 | 68,489                         | 2,681,898         |
| Central Wisconsin Elec Coop .....    | —                     | —                              | —                 | —                              | —                 | 81,943                         | 2,572,111         |
| Chippewa Valley Electric Coop .....  | —                     | 86,752                         | 3,331,574         | —                              | —                 | 86,752                         | 3,331,574         |
| Clark Electric Coop .....            | —                     | 140,574                        | 5,567,828         | —                              | —                 | 140,574                        | 5,567,828         |
| Crawford Electric Coop .....         | —                     | 45,787                         | 1,797,915         | —                              | —                 | 45,787                         | 1,797,915         |
| Dunn County Electric Coop .....      | —                     | 121,910                        | 4,920,954         | —                              | —                 | 121,910                        | 4,920,954         |
| Grant-Lafayette Electric Coop .....  | —                     | 162,948                        | 6,589,672         | —                              | —                 | 162,948                        | 6,589,672         |
| Head of Lakes Electric Coop .....    | —                     | 44,484                         | 1,582,805         | —                              | —                 | 44,484                         | 1,582,805         |
| Jackson Electric Coop Inc .....      | —                     | 107,935                        | 3,416,301         | —                              | —                 | 107,935                        | 3,416,301         |
| Jump River Electric Coop Inc .....   | —                     | 78,696                         | 2,883,490         | —                              | —                 | 78,696                         | 2,883,490         |
| Oakdale Electric Coop .....          | —                     | 170,169                        | 6,271,010         | —                              | —                 | 170,169                        | 6,271,010         |
| Oconto Electric Coop .....           | —                     | —                              | —                 | 18                             | 5,696             | 84,667                         | 2,952,656         |
| Price Electric Coop Inc .....        | —                     | 63,053                         | 2,345,976         | —                              | —                 | 63,053                         | 2,345,976         |
| Richland Electric Coop .....         | —                     | 49,549                         | 1,935,672         | —                              | —                 | 49,549                         | 1,935,672         |
| Rock County Electric Coop Assn ..... | —                     | —                              | —                 | —                              | —                 | 68,866                         | 2,273,325         |
| St Croix Electric Coop .....         | —                     | 118,318                        | 4,616,549         | —                              | —                 | 118,318                        | 4,616,549         |
| Vernon Electric Coop .....           | —                     | 133,849                        | 5,425,695         | —                              | —                 | 133,849                        | 5,425,695         |
| Washington Island El Coop Inc .....  | —                     | —                              | —                 | —                              | —                 | 9,106                          | 321,887           |
| <b>Wyoming</b>                       |                       |                                |                   |                                |                   |                                |                   |
| Big Horn Rural Electric Co .....     | —                     | 78,422                         | 2,887,926         | —                              | —                 | 78,422                         | 2,887,926         |
| Bridger Valley Elec Assn Inc .....   | —                     | 50,958                         | 2,732,520         | —                              | —                 | 90,369                         | 3,494,481         |
| Carbon Power & Light Inc .....       | —                     | 85,642                         | 3,155,146         | —                              | —                 | 85,642                         | 3,155,146         |
| Garland Light & Power Co .....       | —                     | 19,741                         | 789,004           | —                              | —                 | 19,741                         | 789,004           |
| Hot Springs Rural El Assn Inc .....  | —                     | 290,476                        | 10,019,245        | —                              | —                 | 290,476                        | 10,019,245        |
| Niobrara Electric Assn Inc .....     | —                     | 48,797                         | 1,685,317         | —                              | —                 | 48,797                         | 1,685,317         |
| Riverton Valley Elec Assn Inc .....  | —                     | 188,113                        | 6,952,588         | —                              | —                 | 188,113                        | 6,952,588         |
| Rural Electric Co .....              | —                     | 187,237                        | 7,426,600         | —                              | —                 | 187,237                        | 7,426,600         |
| Sheridan-Johnson Rrl Elec Assn ..... | —                     | 84,362                         | 3,092,366         | —                              | —                 | 84,362                         | 3,092,366         |
| Tri-County Electric Assn Inc .....   | —                     | 1,322,215                      | 45,998,552        | —                              | —                 | 1,322,215                      | 45,998,552        |
| Wheatland Rural Elec Assn Inc .....  | —                     | 109,121                        | 3,614,000         | —                              | —                 | 109,121                        | 3,614,000         |
| Wyrulec Co .....                     | —                     | 130,792                        | 4,494,739         | —                              | —                 | 130,792                        | 4,494,739         |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The Department of Agriculture under the Rural Electrification Act is authorized to provide Federal commitments for long-term financing and to guarantee non-Federal long-term loans to utilities supplying power to rural America. The utilities that received guarantees for their loans are referred to as borrowers by the Rural Utilities Service (formerly, the Rural Electrification Administration). Nonborrowing cooperatives and other utilities that do not borrow from the RUS are not required to file the RUS-7 and RUS-12 forms. •Distribution borrowers do not generate electricity; they purchase electricity from other utilities. •For identification purposes, the Cooperative Borrowers are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," RUS Form 12a through 12i, "Electric Power Supply Borrowers," Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities."

**Table 35. Electricity Purchases by Electrical Cooperatives Not Reported to the Rural Utilities Service, by State, 1996**

| State / Utility                      | Source of Electricity<br>(Purchases in thousand kWh) |           |                            |           |             |                    | Total     |
|--------------------------------------|--|-----------|----------------------------|-----------|-------------|--------------------|-----------|
|                                      | Investor-Owned                                       | Federal   | State and Other Government | Municipal | Cooperative | Other <sup>1</sup> |           |
| <b>Alabama</b>                       |  |           |                            |           |             |                    |           |
| Marshall-De Kalb Elec Coop .....     | —  | 417,227   | —                          | —         | —           | —                  | 417,227   |
| <b>Alaska</b>                        |  |           |                            |           |             |                    |           |
| Chugach Electric Assn Inc .....      | —  | 72,886    | —                          | 23,589    | 199,075     | —                  | 295,550   |
| <b>Arizona</b>                       |  |           |                            |           |             |                    |           |
| Graham County Elec Coop Inc .....    | —  | —         | —                          | —         | 118,172     | —                  | 118,172   |
| <b>Florida</b>                       |  |           |                            |           |             |                    |           |
| Lee County Electric Coop Inc .....   | —  | —         | —                          | —         | 2,409,649   | —                  | 2,409,649 |
| <b>Idaho</b>                         |  |           |                            |           |             |                    |           |
| Fall River Rural Elec Coop .....     | —  | 169,633   | —                          | —         | —           | —                  | 169,633   |
| Farmers Electric Co .....            | —  | 4,117     | —                          | —         | —           | —                  | 4,117     |
| Rural Electric Co .....              | —  | 93,578    | —                          | —         | —           | —                  | 93,578    |
| South Side Elec Lines, Inc .....     | —  | 45,485    | —                          | —         | —           | —                  | 45,485    |
| Unity Light & Power Coop .....       | —  | 82,825    | —                          | —         | —           | —                  | 82,825    |
| <b>Indiana</b>                       |  |           |                            |           |             |                    |           |
| Bartholomew County Rural E M C ..... | —  | —         | —                          | —         | 232,828     | —                  | 232,828   |
| Carroll County Rural E M C .....     | —  | —         | —                          | —         | 138,275     | —                  | 138,275   |
| Central Indiana Power .....          | —  | —         | —                          | —         | 144,316     | —                  | 144,316   |
| Clark County Rural E M C .....       | —  | —         | —                          | —         | 264,039     | —                  | 264,039   |
| Hendricks County Rural E M C .....   | —  | —         | —                          | —         | 307,689     | —                  | 307,689   |
| Kosciusko Cnty Rural EMC .....       | —  | —         | —                          | —         | 258,823     | —                  | 258,823   |
| Miami-Cass Cnty Rural EMC .....      | —  | —         | —                          | —         | 105,469     | —                  | 105,469   |
| Noble Cnty Rural EMC .....           | —  | —         | —                          | —         | 171,607     | —                  | 171,607   |
| Steuben County Rural EMC .....       | —  | —         | —                          | —         | 103,101     | —                  | 103,101   |
| Warren County Rural EMC .....        | —  | —         | —                          | —         | 73,777      | —                  | 73,777    |
| <b>Iowa</b>                          |  |           |                            |           |             |                    |           |
| Boone Valley Elec Coop .....         | —  | —         | —                          | —         | 6,600       | —                  | 6,600     |
| Cass Electric Coop .....             | —  | —         | —                          | —         | 1,446       | —                  | 1,446     |
| Nishnabotna Valley REC .....         | —  | —         | —                          | —         | 77,230      | —                  | 77,230    |
| North West Rural Elec Coop .....     | —  | —         | —                          | —         | 132,680     | —                  | 132,680   |
| <b>Louisiana</b>                     |  |           |                            |           |             |                    |           |
| Beauregard Electric Coop Inc .....   | —  | —         | —                          | —         | 566,734     | —                  | 566,734   |
| <b>Michigan</b>                      |  |           |                            |           |             |                    |           |
| Oceana Electric Coop .....           | —  | —         | —                          | —         | 96,140      | —                  | 96,140    |
| Presque Isle Electric Coop Inc ..... | —  | —         | —                          | —         | 209,389     | —                  | 209,389   |
| <b>Mississippi</b>                   |  |           |                            |           |             |                    |           |
| Delta Electric Power Assn .....      | —  | —         | —                          | —         | 448,928     | —                  | 448,928   |
| Pontotoc Elec Power Assoc .....      | —  | 348,662   | —                          | —         | —           | —                  | 348,662   |
| Prentiss Cnty Elec Pwr Assoc .....   | —  | 332,175   | —                          | —         | —           | —                  | 332,175   |
| Tippah Elec Power Assoc .....        | —  | 306,398   | —                          | —         | —           | —                  | 306,398   |
| <b>Missouri</b>                      |  |           |                            |           |             |                    |           |
| Consolidated Elec Coop .....         | —  | —         | —                          | —         | 50,082      | —                  | 50,082    |
| Cuivre River Electric Coop Inc ..... | —  | —         | —                          | —         | 671,305     | —                  | 671,305   |
| Scott-New Madrid-MS El Coop .....    | —  | —         | —                          | —         | 236,462     | —                  | 236,462   |
| <b>Montana</b>                       |  |           |                            |           |             |                    |           |
| Flathead Electric Coop Inc .....     | —  | 1,559,678 | —                          | —         | —           | —                  | 1,559,678 |
| Glacier Electric Coop Inc .....      | —  | 184,177   | —                          | —         | —           | —                  | 184,177   |
| <b>Nebraska</b>                      |  |           |                            |           |             |                    |           |
| Niobrara Valley El Mbr Corp .....    | —  | —         | 98,181                     | —         | —           | —                  | 98,181    |
| <b>Nevada</b>                        |  |           |                            |           |             |                    |           |
| Farmers Mutual Power Assn .....      | —  | —         | —                          | —         | 1,154       | —                  | 1,154     |
| Penoyer Valley Electric Coop .....   | —  | —         | 526                        | —         | —           | —                  | 526       |

See notes and footnotes at end of table.



**Table 35. Electricity Purchases by Electrical Cooperatives Not Reported to the Rural Utilities Service, by State, 1996 –Continued**

| State / Utility                      | Source of Electricity<br>(Purchases in thousand kWh) |         |                            |           |             |                    | Total     |
|--------------------------------------|--|---------|----------------------------|-----------|-------------|--------------------|-----------|
|                                      | Investor-Owned                                       | Federal | State and Other Government | Municipal | Cooperative | Other <sup>1</sup> |           |
| <b>North Carolina</b>                |  |         |                            |           |             |                    |           |
| 4-County Electric Power Assn .....   | —  | 874,494 | —                          | —         | —           | —                  | 874,494   |
| <b>Ohio</b>                          |  |         |                            |           |             |                    |           |
| Licking Rural Electric Inc .....     | —  | —       | —                          | —         | 282,541     | —                  | 282,541   |
| Paulding-Putman Elec Coop .....      | —  | —       | —                          | —         | 217,451     | —                  | 217,451   |
| TriCounty Rural Elec Coop Inc .....  | —  | —       | —                          | —         | 56,020      | —                  | 56,020    |
| <b>Oklahoma</b>                      |  |         |                            |           |             |                    |           |
| Kiamichi Elec Coop Inc .....         | —  | —       | —                          | —         | 225,657     | —                  | 225,657   |
| Oklahoma Elec Coop Inc .....         | —  | —       | —                          | —         | 640,381     | —                  | 640,381   |
| People 's Electric Coop .....        | —  | —       | —                          | —         | 272,562     | —                  | 272,562   |
| <b>Oregon</b>                        |  |         |                            |           |             |                    |           |
| Hood River Electric Coop .....       | —  | 94,373  | —                          | —         | —           | —                  | 94,373    |
| Salem Electric .....                 | —  | 398,033 | —                          | —         | —           | —                  | 398,033   |
| <b>Pennsylvania</b>                  |  |         |                            |           |             |                    |           |
| New Enterprise R E C Inc .....       | —  | —       | —                          | —         | 41,647      | —                  | 41,647    |
| <b>Texas</b>                         |  |         |                            |           |             |                    |           |
| Bandera Elec Coop Inc .....          | —  | —       | 335,605                    | —         | —           | —                  | 335,605   |
| Bluebonnet Electric Coop Inc .....   | —  | —       | 1,156,641                  | —         | —           | —                  | 1,156,641 |
| Cooke County Elec Coop Assn .....    | —  | —       | —                          | —         | 281,513     | —                  | 281,513   |
| Denton Cnty Elec Coop Inc .....      | —  | —       | —                          | —         | 840,217     | —                  | 840,217   |
| Dickens Elec Coop Inc .....          | —  | —       | —                          | —         | 513,894     | —                  | 513,894   |
| Fayette Electric Coop Inc .....      | —  | —       | 172,730                    | —         | —           | —                  | 172,730   |
| Fort Belknap Electric Coop Inc ..... | —  | —       | —                          | —         | 97,754      | —                  | 97,754    |
| Guadalupe Valley Elec Coop .....     | —  | —       | 1,160,028                  | —         | —           | —                  | 1,160,028 |
| Hill County Elec Coop .....          | —  | —       | —                          | —         | 247,046     | —                  | 247,046   |
| Mid-South Electric Coop Assn .....   | —  | —       | —                          | —         | 327,270     | —                  | 327,270   |
| Navasota Valley Elec Coop .....      | —  | —       | —                          | —         | 293,528     | —                  | 293,528   |
| Pedernales Elec Coop Inc .....       | —  | —       | 2,400,933                  | —         | —           | —                  | 2,400,933 |
| Rayburn Country Elec Coop Inc .....  | 1,391,770  | 177,574 | —                          | —         | 218,112     | —                  | 1,787,456 |
| San Bernard Elec Coop Inc .....      | —  | —       | 353,934                    | —         | —           | —                  | 353,934   |
| Wharton Cnty Elec Coop Inc .....     | —  | —       | —                          | —         | 148,306     | —                  | 148,306   |
| Wise Elec Coop Inc .....             | —  | —       | —                          | —         | 215,425     | —                  | 215,425   |
| <b>Virginia</b>                      |  |         |                            |           |             |                    |           |
| Old Dominion Electric Coop .....     | 3,732,364  | —       | —                          | 103       | —           | 173,703            | 3,906,170 |
| <b>Washington</b>                    |  |         |                            |           |             |                    |           |
| Big Bend Elec Coop Inc .....         | —  | 425,000 | —                          | —         | —           | —                  | 425,000   |
| Lakeview Light & Power .....         | —  | —       | —                          | —         | —           | 287,769            | 287,769   |
| <b>Wisconsin</b>                     |  |         |                            |           |             |                    |           |
| Barron Elec Coop .....               | —  | —       | —                          | —         | 300,391     | —                  | 300,391   |
| Buffalo Electric Coop .....          | —  | —       | —                          | —         | 75,379      | —                  | 75,379    |
| Eau Claire Elec Coop .....           | —  | —       | —                          | —         | 135,348     | —                  | 135,348   |
| Pierce-Pepin Elec Coop .....         | —  | —       | —                          | —         | 101,355     | —                  | 101,355   |
| Taylor Electric Coop .....           | —  | —       | —                          | —         | 59,567      | —                  | 59,567    |
| Trempealeau Elec Coop .....          | —  | —       | —                          | —         | 141,544     | —                  | 141,544   |
| <b>Wyoming</b>                       |  |         |                            |           |             |                    |           |
| Lower Valley Pwr & Lgt Inc .....     | —  | 254,897 | —                          | —         | 254,898     | —                  | 509,795   |

<sup>1</sup> Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The Department of Agriculture under the Rural Electrification Act is authorized to provide Federal commitments for long-term financing and to guarantee non-Federal long-term loans to utilities supplying power to rural America. The utilities that received guarantees for their loans are referred to as borrowers by the REA. Nonborrowing cooperatives and other utilities that do not borrow from the REA are not required to file the REA-7 and REA-12 forms. •Distribution borrowers do not generate electricity; they purchase electricity from other utilities. •For identification purposes, the Cooperative Borrowers are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: •Energy Information Administration Form EIA-861, "Annual Electric Utility Report" and FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

**Table 36. Electricity Exchanges and Wheeling by Cooperative Borrowers, by State, 1996**  
(Thousand Kilowatthours)

| State /<br>Cooperative Borrower      | Exchanges |           | Wheeling  |           |
|--------------------------------------|-----------|-----------|-----------|-----------|
|                                      | Received  | Delivered | Received  | Delivered |
| <b>Alabama</b>                       |           |           |           |           |
| Alabama Electric Coop Inc .....      | —         | —         | 102,338   | 99,357    |
| <b>Alaska</b>                        |           |           |           |           |
| Chugach Electric Assn Inc .....      | 99,152    | 96,613    | 113,468   | 113,468   |
| <b>Arizona</b>                       |           |           |           |           |
| Arizona Electric Pwr Coop Inc .....  | 26,159    | 18,505    | 12,273    | 12,040    |
| <b>Arkansas</b>                      |           |           |           |           |
| Arkansas Electric Coop Corp .....    | 37,665    | 29,162    | —         | —         |
| <b>Colorado</b>                      |           |           |           |           |
| Empire Electric Assn Inc .....       | —         | —         | 32,744    | 32,018    |
| Tri-State G & T Assn Inc .....       | 1,176,558 | 1,096,746 | 189,545   | 181,651   |
| <b>Florida</b>                       |           |           |           |           |
| Seminole Electric Coop Inc .....     | 24,071    | 18,983    | 225,577   | 224,139   |
| <b>Idaho</b>                         |           |           |           |           |
| Idaho Cnty L&P Coop Assn Inc .....   | —         | —         | 3,811     | 3,811     |
| Rural Electric Co .....              | —         | —         | 1,429     | 1,429     |
| <b>Illinois</b>                      |           |           |           |           |
| Southern Illinois Power Coop .....   | 133,310   | 190,218   | 120,585   | 120,585   |
| <b>Indiana</b>                       |           |           |           |           |
| Hoosier Energy R E C Inc .....       | 94,159    | 87,157    | 245,161   | 233,341   |
| <b>Iowa</b>                          |           |           |           |           |
| Central Iowa Power Coop .....        | 1,829,995 | 1,732,388 | —         | —         |
| Corn Belt Power Coop .....           | 150,257   | 176,645   | —         | —         |
| L & O Power Coop .....               | —         | —         | 108,739   | 101,625   |
| Northwest Iowa Power Coop .....      | 161,828   | 156,610   | 357,152   | 341,689   |
| <b>Kansas</b>                        |           |           |           |           |
| Midwest Energy Inc .....             | —         | —         | 130,758   | 130,758   |
| Sunflower Electric Power Corp .....  | —         | —         | 314,846   | 314,846   |
| <b>Kentucky</b>                      |           |           |           |           |
| Big Rivers Electric Corp .....       | 2,809     | 4,714     | 1,659,002 | 1,659,002 |
| East Kentucky Power Coop Inc .....   | 252,511   | 211,838   | 2,064,334 | 2,064,334 |
| <b>Minnesota</b>                     |           |           |           |           |
| United Power Assn .....              | 12,762    | 111,807   | 96,184    | 27,140    |
| <b>Mississippi</b>                   |           |           |           |           |
| South Mississippi El Pwr Assn .....  | 29,229    | 28,084    | 598,669   | 580,708   |
| <b>Missouri</b>                      |           |           |           |           |
| Associated Electric Coop Inc .....   | 139,483   | 63,196    | 785,951   | 725,343   |
| Northeast Missouri El Pwr Coop ..... | —         | —         | 176,253   | 176,253   |
| <b>Montana</b>                       |           |           |           |           |
| Sun River Electric Coop Inc .....    | —         | —         | 3,378     | 3,378     |
| <b>Nevada</b>                        |           |           |           |           |
| Valley Electric Assn Inc .....       | 25,187    | 25,765    | —         | —         |
| <b>New Mexico</b>                    |           |           |           |           |
| Jemez Mountains Elec Coop Inc .....  | —         | —         | 43,881    | 42,849    |
| Plains Elec Gen&Trans Coop Inc ..... | 9,569     | 16,433    | —         | —         |
| <b>North Dakota</b>                  |           |           |           |           |
| Basin Electric Power Coop .....      | 260,543   | 4,760     | —         | —         |
| Minnkota Power Coop Inc .....        | 60,665    | 170,769   | 24,592    | 22,983    |
| Mor-Gran-Sou Electric Coop Inc ..... | —         | —         | 169       | 169       |
| Oliver-Mercer Elec Coop Inc .....    | —         | —         | 2,192     | 2,192     |

See notes and footnotes at end of table.

**Table 36. Electricity Exchanges and Wheeling by Cooperative Borrowers, by State, 1996**  
(Thousand Kilowatthours) (Continued)

| State /<br>Cooperative Borrower      | Exchanges  |            | Wheeling |           |
|--------------------------------------|------------|------------|----------|-----------|
|                                      | Received   | Delivered  | Received | Delivered |
| <b>Oklahoma</b>                      |            |            |          |           |
| Peoples Electric Coop Inc .....      | —          | —          | 49,766   | 49,766    |
| Western Farmers Elec Coop Inc .....  | 60,966     | 41,821     | —        | —         |
| <b>Oregon</b>                        |            |            |          |           |
| Hood River Electric Coop .....       | —          | —          | 25,869   | 25,869    |
| Pacific Northwest Genertg Coop ..... | —          | —          | 260,328  | 260,328   |
| <b>South Dakota</b>                  |            |            |          |           |
| East River Elec Power Coop Inc ..... | —          | —          | 385,442  | 361,044   |
| <b>Texas</b>                         |            |            |          |           |
| Brazos Electric Power Coop Inc ..... | 21,473,267 | 21,027,081 | 205,086  | 201,410   |
| Rayburn Country Elec Coop, Inc.....  | 143,160    | 173,290    | —        | —         |
| South Texas Electric Coop Inc .....  | —          | 341,708    | 325,237  | 322,111   |
| <b>Utah</b>                          |            |            |          |           |
| Deseret Generation & Tran Coop ..... | 27,581     | 43,772     | —        | —         |
| Flowell Electric Assn Inc .....      | 4,059      | 4,059      | —        | —         |
| Moon Lake Electric Assn Inc .....    | —          | —          | 30,495   | 30,495    |
| <b>Virginia</b>                      |            |            |          |           |
| Rappahannock Electric Coop .....     | —          | —          | 5,867    | 5,759     |
| <b>Wyoming</b>                       |            |            |          |           |
| Big Horn Rural Electric Co .....     | —          | —          | 10,689   | 9,681     |

—Not Applicable

Notes: •The Department of Agriculture under the Rural Electrification Act is authorized to provide Federal commitments for long-term financing and to guarantee non-Federal long-term loans to utilities supplying power to rural America. The utilities that received guarantees for their loans are referred to as borrowers by the RUS. Nonborrowing cooperatives and other utilities that do not borrow from the RUS are not required to file the Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," the RUS Form 12a through 12i, "Electric Power Supply Borrowers," and the Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities." •For identification purposes, the Cooperative Borrowers are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

# **Appendix A**

**Federal  
Energy  
Regulatory  
Commission  
Regulation of  
the Electric  
Utility  
Industry**

## Appendix A

# Federal Energy Regulatory Commission Regulation of the Electric Utility Industry

The responsibility for regulating most interstate wholesale electric trade rests with the Federal Government, and not with State or local governments. Therefore, data on wholesale trade are collected within a framework of Federal laws and regulations. In wholesale trade between electrically connected utilities, if even one utility is electrically connected to a utility that operates in a different State, then trade among any of these utilities is considered interstate and jurisdictional for the Federal Energy Regulatory Commission (FERC) regulatory purposes. Hence virtually all wholesale trade except that in Alaska, Hawaii, and part of Texas is considered interstate.

FERC is responsible for governing interstate trade of wholesale electricity for investor-owned utilities. In order to participate in wholesale electricity trade, utilities must file interconnection agreements (contracts) with the FERC. FERC exercises its regulatory authority directly by approving interconnections between utilities, coordinating agreements to exchange power, and approving wholesale power rates. Authority for bulk power transactions is typically prearranged under interconnection contracts. These agreements define an individual electric utility's overall relationship to other utilities. In addition, they define how each will maintain its part of the electrical system operations. Other contracts are often negotiated to handle specific needs. In fact, one of the most common is for support of full or partial requirement power. Requirements contracts cover electric utilities that have either insufficient or no generating capability to satisfy their customer load. They represent long-term, firm power contractual obligations in which the terms and conditions obligate the selling electric utility to provide the buying electric utility a level of service equivalent to the seller's requirement to support its own retail customers. These contracts may be with more than one electric utility.

For restructuring the electric utility industry, the FERC has issued policy statements in several critical areas and initiated a number of proceedings in the period immediately following the passage of the Energy Policy Act of 1992. These include: (1) Regional Transmission Group Policy Statement,

Docket No. RM93-3-000 (July 30, 1993), (2) Docket No. RM94-7-000, *Recover of Stranded Costs by Public Utilities and Transmitting Utilities*, Notice of Proposed Rulemaking (June 29, 1994), (3) Transmission Pricing Policy Statement, Docket No. RM93-19-000 (October 26, 1994), (4) Pooling Notice of Inquiry, Docket No. RM94-20-000 (October 26, 1994), (5) Notice of Proposed Rulemaking and Supplemental Notice of Proposed Rulemaking: (i) *Promoting Wholesale Competition through Open Access Non-Discriminatory Transmission Services by Public Utilities*, Docket No. RM95-8-000, and (ii) *Recovery of Stranded Costs by Public Utilities and Transmitting Utilities*, Docket No. RM-94-7-001 (March 29, 1995), and *Notice of Inquiry on Merger Policy*, Docket No. Rm-96-000 (January 31, 1996).

These reviews and actions taken by the FERC are designed to create a business environment conducive to competition in wholesale electricity trade. However, the contemplated industry transformation from a regulated cost-of-service pricing structure which has an obligation to serve all customers to one that is fully competitive in generation with open access to transmission faces a host of complex and controversial issues. See the Energy Information Administration report, *The Changing Structure of the Electric Power Industry: Selected Issues, 1998* for a discussion of many of the current issues.<sup>16</sup>

The FERC established a Uniform System of Accounts for the financial reporting of electric trade transactions. The transactions reported are complex and involve specifics of contracts, simultaneous energy transactions, the unintended receipt and delivery of energy, and the handling of energy losses. These accounts can be found in the FERC's "Accounting and Reporting Requirements For Public Utilities and Licensees." FERC requires only investor-owned utilities to file financial information on electric trade. The Rural Utilities Service (RUS) requires its borrowers (usually cooperatives) to file similar information, while EIA requires similar information from public utilities. Both the RUS and the EIA request the reporting of information based on the Uniform System of Accounts.

<sup>16</sup> Energy Information Administration, *The Changing Structure of the Electric Power Industry: Selected Issues, 1998* DOE/EIA-0562(98)(Washington DC, July 1998).

Data on wholesale electricity trade are collected on Federal survey data forms that are accounting-system based. They were designed for regulatory purposes to meet individual electric utility administrative and rate case needs as opposed to overall aggregate industry statistical and analytical purposes.

The FERC Forms 1 and 1-F are the primary financial reporting forms. Wholesale data are collected on 4 of the approximately 75 survey schedules comprising the FERC Form 1. The wholesale electricity trade schedules are categorized as sales for resale, purchased power, summary of interchange, and transmission of electricity for or by others. These schedules correspond to one or more of the following accounts from the Uniform System of Accounts as follows:

- Sales for Resale (447)
  - A. This account shall include the net billing for electricity supplied to other electric utilities or to public authorities for resale purposes.
  - B. Records shall be maintained so as to show the quantity of electricity sold and the revenue received from each customer.
  - NOTE: Revenues from electricity supplied to other public utilities for use by them and not for distribution shall be included in account 443, Commercial and Industrial Sales, unless supplied under the same contract as and not readily separable from revenues includable in this account.
- Purchased Power (555)
  - A. This account shall include the cost at point of receipt by the utility of electricity purchased for resale. It shall include, also, net settlements for exchange of electricity or power, such as economy energy, off-peak energy for on-peak energy, spinning reserve capacity, etc. In addition, the account shall include the net settlements for transactions under pooling or interconnection agreements wherein there is a balancing of debits and credits for energy, capacity, etc. Distinct purchases and sales shall not be recorded as exchanges and net amounts are only recorded merely because debit and credit amounts are combined in the voucher settlement.
  - B. The records supporting this account shall show, by months, the demands and demand charges, kilowatthours and prices thereof under each purchase contract and the charges and credits under each exchange or power pooling contract.
- Other Electric Revenues (456)
  - 5. Revenues from transmission of electricity of others over transmission facilities of the utility.
- Transmission of Electricity By Others (565)
  - This account shall include amounts payable to others for the transmission of the utility's electricity over transmission facilities owned by others.

## **Addition of Statistical Classification Codes to the FERC Form 1**

The Federal Energy Regulatory Commission modified the FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others" for the 1990 collection year. The Statistical Classification Codes are based on the original contractual terms and conditions of the service. The following codes were added to FERC Form 1:

- RQ - for requirements service. Requirements service is service which the supplier plans to provide on an ongoing basis (i.e., the supplier includes projected load for this service in its system resource planning). In addition, the reliability of requirements service must be the same as, or second only to, the supplier's service to its own ultimate consumers.
- LF - for long-term firm service. "Long-term" means 5 years or longer and "firm" means that service cannot be interrupted for economic reasons and is intended to remain reliable even under adverse conditions (e.g., the supplier must attempt to buy emergency energy from third parties to maintain deliveries of LF service). This category should not be used for long-term firm service, which meets the definition of RQ service. For all transactions identified as LF, provide in a footnote the termination date of the contract defined as the earliest date that either buyer or seller can unilaterally get out of the contract.
- IF - for intermediate-term firm service. The same as LF service except that "intermediate-term" means longer than 1 year but less than 5 years.
- SF - for short-term firm service. Use this category for all firm services where the duration of each period of commitment for service is 1 year or less.
- LU - for long-term service from a designated generating unit. "Long-term" means 5 years or longer. The availability and reliability of service, aside from transmission constraints, must match the availability and reliability of the designated unit.
- IU - for intermediate-term service from a designated generating unit. The same as LU service except that "intermediate-term" means longer than 1 year but less than 5 years.
- EX - for exchange of electricity. Use this category for transactions involving a balancing of debits and credits for energy, capacity, etc. and any settlements for imbalanced exchanges.
- OS - for other service. Use this category only for those services which cannot be placed in the above-defined categories, such as all nonfirm service regardless of the length of the contract and service from designated units of less than 1 year. Describe the nature of the service in a footnote.
- AD - for out-of-period adjustments. Use this code for any accounting adjustments or "tune-ups" for

service provided in prior reporting years. Provide an explanation in a footnote for each adjustment.

# **Appendix B**

## **State, NERC Region, and Data Sources for Electric Utilities**



## Appendix B

# State, NERC Region, and Data Sources for Electric Utilities

**Table B1. Investor-Owned Utilities, 1996**

| Utility                                | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|--|--------------------|--------------------------|--------------------------|
| Alabama Power Co .....                 | Alabama            | SERC                     | FERC FORM 1              |
| Alaska Electric Light & Power Co ..... | Alaska             | ASCC                     | FERC FORM 1-F            |
| Alcoa Generating Corp .....            | Indiana            | ECAR                     | FERC FORM 1              |
| Allegheny Generating Co .....          | Maryland           | ECAR                     | FERC FORM 1-F            |
| Appalachian Power Co .....             | Virginia           | ECAR                     | FERC FORM 1              |
| Arizona Public Service Co .....        | Arizona            | WSCC                     | FERC FORM 1              |
| Aroostook Valley Electric Co .....     | Maine              | NPCC                     | FERC FORM 1              |
| Atlantic City Electric Co .....        | New Jersey         | MAAC                     | FERC FORM 1              |
| AEP Generating Co .....                | Ohio               | ECAR                     | FERC FORM 1              |
| Baltimore Gas & Electric Co .....      | Maryland           | MAAC                     | FERC FORM 1              |
| Bangor Hydro-Electric Co .....         | Maine              | NPCC                     | FERC FORM 1              |
| Beebe Island Corp .....                | New York           | NPCC                     | FERC FORM 1              |
| Black Hills Corp .....                 | South Dakota       | WSCC                     | FERC FORM 1              |
| Blackstone Valley Electric Co .....    | Rhode Island       | NPCC                     | FERC FORM 1              |
| Boston Edison Co .....                 | Massachusetts      | NPCC                     | FERC FORM 1              |
| Cambridge Electric Light Co .....      | Massachusetts      | NPCC                     | FERC FORM 1              |
| Canal Electric Co .....                | Massachusetts      | NPCC                     | FERC FORM 1              |
| Carolina Power & Light Co .....        | North Carolina     | SERC                     | FERC FORM 1              |
| Catalyst Old River Hydroel LP .....    | Louisiana          | SPP                      | FERC FORM 1              |
| Central Hudson Gas & Elec Corp .....   | New York           | NPCC                     | FERC FORM 1              |
| Central Illinois Light Co .....        | Illinois           | MAIN                     | FERC FORM 1              |
| Central Illinois Pub Serv Co .....     | Illinois           | MAIN                     | FERC FORM 1              |
| Central Louisiana Elec Co Inc .....    | Louisiana          | SPP                      | FERC FORM 1              |
| Central Maine Power Co .....           | Maine              | NPCC                     | FERC FORM 1              |
| Central Power & Light Co .....         | Texas              | ERCOT                    | FERC FORM 1              |
| Central Vermont Pub Serv Corp .....    | Vermont            | NPCC                     | FERC FORM 1              |
| Cincinnati Gas & Electric Co .....     | Ohio               | ECAR                     | FERC FORM 1              |
| Citizens Utilities Co .....            | Connecticut        | NPCC                     | FERC FORM 1              |
| Citizens ' Electric Co .....           | Pennsylvania       | MAAC                     | FERC FORM 1-F            |
| Cleveland Electric Illum Co .....      | Ohio               | ECAR                     | FERC FORM 1              |
| Columbus Southern Power Co .....       | Ohio               | ECAR                     | FERC FORM 1              |
| Commonwealth Edison Co .....           | Illinois           | MAIN                     | FERC FORM 1              |
| Commonwealth Edison Co IN Inc .....    | Indiana            | MAIN                     | FERC FORM 1              |
| Commonwealth Electric Co .....         | Massachusetts      | NPCC                     | FERC FORM 1              |
| Concord Electric Co .....              | New Hampshire      | NPCC                     | FERC FORM 1-F            |
| Connecticut Light & Power Co .....     | Connecticut        | NPCC                     | FERC FORM 1              |
| Connecticut Valley Elec Co Inc .....   | New Hampshire      | NPCC                     | FERC FORM 1              |
| Connecticut Yankee Atom Pwr Co .....   | Connecticut        | NPCC                     | FERC FORM 1              |
| Consolidated Edison Co-NY Inc .....    | New York           | NPCC                     | FERC FORM 1              |
| Consolidated Water Power Co .....      | Wisconsin          | MAIN                     | FERC FORM 1              |
| Consumers Power Co .....               | Michigan           | ECAR                     | FERC FORM 1              |
| Dayton Power & Light Co .....          | Ohio               | ECAR                     | FERC FORM 1              |
| Delmarva Power & Light Co .....        | Delaware           | MAAC                     | FERC FORM 1              |
| Detroit Edison Co .....                | Michigan           | ECAR                     | FERC FORM 1              |
| Duke Power Co .....                    | North Carolina     | SERC                     | FERC FORM 1              |
| Duquesne Light Co .....                | Pennsylvania       | ECAR                     | FERC FORM 1              |
| Eastern Edison Co .....                | Massachusetts      | NPCC                     | FERC FORM 1              |
| Edison Sault Electric Co .....         | Michigan           | ECAR                     | FERC FORM 1              |
| El Paso Electric Co .....              | Texas              | WSCC                     | FERC FORM 1              |
| Electric Energy Inc .....              | Illinois           | MAIN                     | FERC FORM 1              |

See footnotes at end of table.

**Table B1. Investor-Owned Utilities, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Empire District Electric Co.....    | Missouri           | SPP                      | FERC FORM 1              |
| Entergy Arkansas Inc.....           | Arkansas           | SPP                      | FERC FORM 1              |
| Entergy Gulf States Inc.....        | Texas              | SPP                      | FERC FORM 1              |
| Entergy Louisiana Inc.....          | Louisiana          | SPP                      | FERC FORM 1              |
| Entergy Mississippi Inc.....        | Mississippi        | SPP                      | FERC FORM 1              |
| Entergy New Orleans Inc.....        | Louisiana          | SPP                      | FERC FORM 1              |
| Entergy Power Inc.....              | Arkansas           | SPP                      | FERC FORM 1              |
| Exeter & Hampton Electric Co.....   | New Hampshire      | NPCC                     | FERC FORM 1-F            |
| Fitchburg Gas & Elec Light Co.....  | Massachusetts      | NPCC                     | FERC FORM 1              |
| Florida Power & Light Co.....       | Florida            | SERC                     | FERC FORM 1              |
| Florida Power Corp.....             | Florida            | SERC                     | FERC FORM 1              |
| Georgia Power Co.....               | Georgia            | SERC                     | FERC FORM 1              |
| Granite State Electric Co.....      | New Hampshire      | NPCC                     | FERC FORM 1-F            |
| Great Bay Power Corp.....           | New Hampshire      | NPCC                     | FERC FORM 1              |
| Green Mountain Power Corp.....      | Vermont            | NPCC                     | FERC FORM 1              |
| Gulf Power Co.....                  | Florida            | SERC                     | FERC FORM 1              |
| Hawaiian Electric Co Inc.....       | Hawaii             | HI                       | FERC FORM 1              |
| Holyoke Power & Electric Co.....    | Massachusetts      | NPCC                     | FERC FORM 1              |
| Holyoke Water Power Co.....         | Massachusetts      | NPCC                     | FERC FORM 1              |
| Houston Lighting & Power Co.....    | Texas              | ERCOT                    | FERC FORM 1              |
| Idaho Power Co.....                 | Idaho              | WSCC                     | FERC FORM 1              |
| Illinois Power Co.....              | Illinois           | MAIN                     | FERC FORM 1              |
| Indiana Michigan Power Co.....      | Indiana            | ECAR                     | FERC FORM 1              |
| Indiana-Kentucky Electric Corp..... | Ohio               | ECAR                     | FERC FORM 1              |
| Indianapolis Power & Light Co.....  | Indiana            | ECAR                     | FERC FORM 1              |
| Interstate Power Co.....            | Iowa               | MAPP                     | FERC FORM 1              |
| IES Utilities Inc.....              | Iowa               | MAPP                     | FERC FORM 1              |
| Jersey Central Power&Light Co.....  | New Jersey         | MAAC                     | FERC FORM 1              |
| Kansas City Power & Light Co.....   | Missouri           | SPP                      | FERC FORM 1              |
| Kansas Gas & Electric Co.....       | Kansas             | SPP                      | FERC FORM 1              |
| Kentucky Power Co.....              | Kentucky           | ECAR                     | FERC FORM 1              |
| Kentucky Utilities Co.....          | Kentucky           | ECAR                     | FERC FORM 1              |
| Kingsport Power Co.....             | Tennessee          | ECAR                     | FERC FORM 1              |
| Lockhart Power Co.....              | South Carolina     | SERC                     | FERC FORM 1              |
| Long Island Lighting Co.....        | New York           | NPCC                     | FERC FORM 1              |
| Long Sault Inc.....                 | New York           | ERCOT                    | FERC FORM 1              |
| Louisville Gas & Electric Co.....   | Kentucky           | ECAR                     | FERC FORM 1              |
| Madison Gas & Electric Co.....      | Wisconsin          | MAIN                     | FERC FORM 1              |
| Maine Electric Power Co Inc.....    | Maine              | NPCC                     | FERC FORM 1              |
| Maine Public Service Co.....        | Maine              | NPCC                     | FERC FORM 1              |
| Maine Yankee Atomic Power Co.....   | Maine              | NPCC                     | FERC FORM 1              |
| Massachusetts Electric Co.....      | Massachusetts      | NPCC                     | FERC FORM 1              |
| Maui Electric Co Ltd.....           | Hawaii             | HI                       | FERC FORM 1              |
| Metropolitan Edison Co.....         | Pennsylvania       | MAAC                     | FERC FORM 1              |
| MidAmerican Energy Co.....          | Iowa               | MAPP                     | FERC FORM 1              |
| Minnesota Power & Light Co.....     | Minnesota          | MAPP                     | FERC FORM 1              |
| Mississippi Power Co.....           | Mississippi        | SERC                     | FERC FORM 1              |
| Monongahela Power Co.....           | West Virginia      | ECAR                     | FERC FORM 1              |
| Montana Power Co.....               | Montana            | WSCC                     | FERC FORM 1              |
| Montaup Electric Co.....            | Massachusetts      | NPCC                     | FERC FORM 1              |
| Mt Carmel Public Utility Co.....    | Illinois           | MAIN                     | FERC FORM 1              |
| MDU Resources Group Inc.....        | North Dakota       | MAPP                     | FERC FORM 1              |
| Nantahala Power & Light Co.....     | North Carolina     | SERC                     | FERC FORM 1              |
| Narragansett Electric Co.....       | Rhode Island       | NPCC                     | FERC FORM 1              |
| Nevada Power Co.....                | Nevada             | WSCC                     | FERC FORM 1              |
| New England Elec Transm'n Cor.....  | New Hampshire      | NPCC                     | FERC FORM 1              |
| New England Hydro-Tran Elec Co..... | Massachusetts      | NPCC                     | FERC FORM 1              |
| New England Hydro-Trans Corp.....   | New Hampshire      | NPCC                     | FERC FORM 1              |
| New England Power Co.....           | Massachusetts      | NPCC                     | FERC FORM 1              |
| New York State Elec & Gas Corp..... | New York           | NPCC                     | FERC FORM 1              |
| Newport Electric Corp.....          | Rhode Island       | NPCC                     | FERC FORM 1              |
| Niagara Mohawk Power Corp.....      | New York           | NPCC                     | FERC FORM 1              |
| North Atlantic Energy Corp.....     | New Hampshire      | NPCC                     | FERC FORM 1              |
| Northern Indiana Pub Serv Co.....   | Indiana            | ECAR                     | FERC FORM 1              |
| Northern States Power Co.....       | Wisconsin          | MAPP                     | FERC FORM 1              |
| Northern States Power Co.....       | Minnesota          | MAPP                     | FERC FORM 1              |
| Northwestern Public Service Co..... | South Dakota       | MAPP                     | FERC FORM 1              |
| Northwestern Wisconsin Elec Co..... | Wisconsin          | MAPP                     | FERC FORM 1              |
| Ocean State Power.....              | Rhode Island       | NPCC                     | FERC FORM 1              |
| Ohio Edison Co.....                 | Ohio               | ECAR                     | FERC FORM 1              |

See footnotes at end of table.

**Table B1. Investor-Owned Utilities, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Ohio Power Co.....                  | Ohio               | ECAR                     | FERC FORM 1              |
| Ohio Valley Electric Corp.....      | Ohio               | ECAR                     | FERC FORM 1              |
| Oklahoma Gas & Electric Co.....     | Oklahoma           | SPP                      | FERC FORM 1              |
| Orange & Rockland Utils Inc.....    | New York           | NPCC                     | FERC FORM 1              |
| Otter Tail Power Co.....            | Minnesota          | MAPP                     | FERC FORM 1              |
| Pacific Gas & Electric Co.....      | California         | WSCC                     | FERC FORM 1              |
| PacifiCorp.....                     | Oregon             | WSCC                     | FERC FORM 1              |
| Pennsylvania Electric Co.....       | Pennsylvania       | MAAC                     | FERC FORM 1              |
| Pennsylvania Power & Light Co.....  | Pennsylvania       | MAAC                     | FERC FORM 1              |
| Pennsylvania Power Co.....          | Pennsylvania       | ECAR                     | FERC FORM 1              |
| Pioneer Power & Light Co.....       | Wisconsin          | MAIN                     | FERC FORM 1              |
| Portland General Electric Co.....   | Oregon             | WSCC                     | FERC FORM 1              |
| Potomac Edison Co.....              | Maryland           | ECAR                     | FERC FORM 1              |
| Potomac Electric Power Co.....      | District of Col.   | MAAC                     | FERC FORM 1              |
| Public Service Co of Colorado.....  | Colorado           | WSCC                     | FERC FORM 1              |
| Public Service Co of NH.....        | New Hampshire      | NPCC                     | FERC FORM 1              |
| Public Service Co of NM.....        | New Mexico         | WSCC                     | FERC FORM 1              |
| Public Service Co of Oklahoma.....  | Oklahoma           | SPP                      | FERC FORM 1              |
| Public Service Electric&Gas Co..... | New Jersey         | MAAC                     | FERC FORM 1              |
| Puget Sound Power & Light Co.....   | Washington         | WSCC                     | FERC FORM 1              |
| PECO Energy Co.....                 | Pennsylvania       | MAAC                     | FERC FORM 1              |
| PSI Energy Inc.....                 | Indiana            | ECAR                     | FERC FORM 1              |
| Rochester Gas & Electric Corp.....  | New York           | NPCC                     | FERC FORM 1              |
| Rockland Electric Co.....           | New Jersey         | MAAC                     | FERC FORM 1              |
| Safe Harbor Water Power Corp.....   | Pennsylvania       | MAAC                     | FERC FORM 1              |
| San Diego Gas & Electric Co.....    | California         | WSCC                     | FERC FORM 1              |
| Savannah Electric & Power Co.....   | Georgia            | SERC                     | FERC FORM 1              |
| Sierra Pacific Power Co.....        | Nevada             | WSCC                     | FERC FORM 1              |
| South Beloit Water Gas&Elec Co..... | Wisconsin          | MAIN                     | FERC FORM 1              |
| South Carolina Electric&Gas Co..... | South Carolina     | SERC                     | FERC FORM 1              |
| South Carolina Genertg Co Inc.....  | South Carolina     | SERC                     | FERC FORM 1              |
| Southern California Edison Co.....  | California         | WSCC                     | FERC FORM 1              |
| Southern Electric Generat'g C.....  | Alabama            | SERC                     | FERC FORM 1              |
| Southern Indiana Gas & Elec Co..... | Indiana            | ECAR                     | FERC FORM 1              |
| Southwestern Electric Power Co..... | Louisiana          | SPP                      | FERC FORM 1              |
| Southwestern Electric Serv Co.....  | Texas              | ERCOT                    | FERC FORM 1              |
| Southwestern Public Service Co..... | Texas              | SPP                      | FERC FORM 1              |
| St Joseph Light & Power Co.....     | Missouri           | SPP                      | FERC FORM 1              |
| Superior Water Light&Power Co.....  | Wisconsin          | MAPP                     | FERC FORM 1              |
| Susquehanna Electric Co.....        | Pennsylvania       | MAAC                     | FERC FORM 1              |
| System Energy Resources Inc.....    | Mississippi        | SERC                     | FERC FORM 1              |
| Tampa Electric Co.....              | Florida            | SERC                     | FERC FORM 1              |
| Texas Utilities Electric Co.....    | Texas              | ERCOT                    | FERC FORM 1              |
| Texas-New Mexico Power Co.....      | Texas              | ERCOT                    | FERC FORM 1              |
| Toledo Edison Co.....               | Ohio               | ECAR                     | FERC FORM 1              |
| Tucson Electric Power Co.....       | Arizona            | WSCC                     | FERC FORM 1              |
| Union Electric Co.....              | Missouri           | MAIN                     | FERC FORM 1              |
| Union Light Heat & Power Co.....    | Kentucky           | ECAR                     | FERC FORM 1              |
| United Illuminating Co.....         | Connecticut        | NPCC                     | FERC FORM 1              |
| Upper Peninsula Power Co.....       | Michigan           | MAIN                     | FERC FORM 1              |
| UtiliCorp United Inc.....           | Missouri           | SPP                      | FERC FORM 1              |
| UNITIL Power Corp.....              | New Hampshire      | NPCC                     | FERC FORM 1-F            |
| Vermont Electric Power Co Inc.....  | Vermont            | NPCC                     | FERC FORM 1              |
| Vermont Electric Trans Co Inc.....  | Vermont            | NPCC                     | FERC FORM 1              |
| Vermont Yankee Nucl Pwr Corp.....   | Vermont            | NPCC                     | FERC FORM 1              |
| Virginia Electric & Power Co.....   | Virginia           | SERC                     | FERC FORM 1              |
| Washington Water Power Co.....      | Washington         | WSCC                     | FERC FORM 1              |
| West Penn Power Co.....             | Pennsylvania       | ECAR                     | FERC FORM 1              |
| West Texas Utilities Co.....        | Texas              | ERCOT                    | FERC FORM 1              |
| Western Massachusetts Elec Co.....  | Massachusetts      | NPCC                     | FERC FORM 1              |

See footnotes at end of table.

**Table B1. Investor-Owned Utilities, 1996 (Continued)**

| Utility                            | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|------------------------------------|--------------------|--------------------------|--------------------------|
| Western Resources Inc.....         | Kansas             | SPP                      | FERC FORM 1              |
| Wheeling Power Co.....             | West Virginia      | ECAR                     | FERC FORM 1              |
| Wisconsin Electric Power Co.....   | Wisconsin          | MAIN                     | FERC FORM 1              |
| Wisconsin Power & Light Co.....    | Wisconsin          | MAIN                     | FERC FORM 1              |
| Wisconsin Public Service Corp..... | Wisconsin          | MAIN                     | FERC FORM 1              |
| Wisconsin River Power Co.....      | Wisconsin          | MAIN                     | FERC FORM 1              |
| Yankee Atomic Electric Co.....     | Massachusetts      | NPCC                     | FERC FORM 1              |
| York Haven Power Co.....           | Pennsylvania       | MAAC                     | FERC FORM 1              |

<sup>1</sup> The State in which the corporate office of the utility is located.

<sup>2</sup> The principal North American Electric Reliability Council region in which the utility operates. See Glossary for a list of all regions.

<sup>3</sup> Source of data for this publication

Note: Some of the investor-owned electric utilities that are required to file as "minor" utilities did not use the FERC Form 1-F, instead they filed the FERC Form 1. Table B1 identifies only the actual form filed with the FERC and not the list of "minor" investor-owned electric utilities.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report for Nonmajor Public Utilities and Licensees."

**Table B2. Federal Utilities, 1996**

| Utility  | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|--|--------------------|--------------------------|--------------------------|
| Bonneville Power Admin .....                     | Oregon             | WSCC                     | EIA-412                  |
| Southeastern Power Admin .....                   | Georgia            | SERC                     | EIA-412                  |
| Southwestern Power Admin .....                   | Oklahoma           | SPP                      | EIA-412                  |
| Tennessee Valley Authority .....                 | Tennessee          | SERC                     | EIA-412                  |
| U S Army Corps of Engineers .....                | Michigan           | ECAR                     | EIA-412                  |
| U S Bureau of Indian Affairs.....                |                    |                          |                          |
| Mission Valley Power <sup>4</sup> .....          | Montana            | WSCC                     | EIA-412                  |
| San Carlos Irrigation Project <sup>5</sup> ..... | Arizona            | WSCC                     | EIA-412                  |
| Western Area Power Admin .....                   | Colorado           | WSCC/MAPP                | EIA-412                  |

<sup>1</sup> The State in which the administrative office of the utility is located.

<sup>2</sup> The principal North American Electric Reliability Council regions in which the utility operates. See glossary for a list of all regions.

<sup>3</sup> Source of data for this publication

<sup>4</sup> Under P.L. 93-638, the operation and maintenance of the electric utility portion of the irrigation project has been contracted with Mission Valley Power, an entity of the Confederated Salish and Kootenai Tribes.

<sup>5</sup> During 1992, portions of the utility were divested by the Federal Government. The off-reservation distribution system is to be transferred to San Carlos Irrigation and Drainage District (a state entity) which will sell it to Arizona Public Service. The on-reservation distribution system is to be transferred to Gila River Utility Authority (of the Gila River Indian Community) and the San Carlos Apache Tribe. The Coolidge Dam will remain U.S. property and be run by the Bureau of Indian Affairs.

Note: The Federal Government both produces electricity and sells it at wholesale. Federal producers include the U.S. Army Corps of Engineers, Bureau of Indian Affairs, Bureau of Reclamation, and the International Boundary and Water Commission. The power marketing administrations of the U.S. Department of Energy are also federally owned utilities; they include the Alaska, Bonneville, Southeastern, Southwestern, and Western Area Power Administrations. The Tennessee Valley Authority also both generates and markets electricity.

Sources: •Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities." •Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

**Table B3. State and Other Government Utilities, 1996**

| Utility                              | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|--------------------------------------|--------------------|--------------------------|--------------------------|
| Alaska Energy Authority.....         | Alaska             | ASCC                     | EIA-412                  |
| Arizona Power Authority.....         | Arizona            | WSCC                     | EIA-412                  |
| Arkansas River Power Authority.....  | Colorado           | WSCC                     | EIA-412                  |
| Burt County Public Power Dist.....   | Nebraska           | MAPP                     | RUS-7                    |
| Butler County Rural P P D.....       | Nebraska           | MAPP                     | RUS-7                    |
| California Dept-Wtr Resources.....   | California         | WSCC                     | EIA-412                  |
| Central Lincoln Peoples Util Dt..... | Oregon             | WSCC                     | EIA-412                  |
| Central Nebraska Pub P&I Dist.....   | Nebraska           | MAPP                     | EIA-412                  |
| Chimney Rock Public Power Dist.....  | Nebraska           | MAPP                     | RUS-7                    |
| Clatskanie Peoples Util Dist.....    | Oregon             | WSCC                     | EIA-412                  |
| Colorado River Comm of Nevada.....   | Nevada             | WSCC                     | EIA-412                  |
| Columbia River Peoples Ut Dist.....  | Oregon             | WSCC                     | EIA-412                  |
| Cornhusker Public Power Dist.....    | Nebraska           | MAPP                     | EIA-412                  |
| Crisp County Power Comm.....         | Georgia            | SERC                     | EIA-412                  |
| Dawson County Public Pwr Dist.....   | Nebraska           | MAPP                     | EIA-412                  |
| Electrical Dist No2 Pinal Cnty.....  | Arizona            | WSCC                     | EIA-412                  |
| Emerald People 's Utility Dist.....  | Oregon             | WSCC                     | EIA-412                  |
| Grand River Dam Authority.....       | Oklahoma           | SPP                      | EIA-412                  |
| Heartland Consumers Power Dist.....  | South Dakota       | MAPP                     | EIA-412                  |
| Imperial Irrigation District.....    | California         | WSCC                     | EIA-412                  |
| Indiana Municipal Power Agency.....  | Indiana            | ECAR                     | EIA-412                  |
| Kansas Municipal Energy Agency.....  | Kansas             | SPP                      | EIA-412                  |
| Kings River Conservation Dist.....   | California         | WSCC                     | EIA-412                  |
| KBR Rural Public Power Dist.....     | Nebraska           | MAPP                     | RUS-7                    |
| Lafayette Public Power Auth.....     | Louisiana          | SPP                      | EIA-412                  |
| Louisiana Energy & Power Auth.....   | Louisiana          | SPP                      | EIA-412                  |
| Loup River Public Power Dist.....    | Nebraska           | MAPP                     | EIA-412                  |
| Lower Colorado River Authority.....  | Texas              | ERCOT                    | EIA-412                  |
| Massachusetts Mun Whls Elec Co.....  | Massachusetts      | NPCC                     | EIA-412                  |
| Merced Irrigation District.....      | California         | WSCC                     | EIA-412                  |
| Michigan Public Power Agency.....    | Michigan           | ECAR                     | EIA-412                  |
| Michigan South Central Pwr Agy.....  | Michigan           | ECAR                     | EIA-412                  |
| Minnesota Municipal Power Agny.....  | Minnesota          | MAPP                     | EIA-412                  |
| Missouri Basin Mun Power Agny.....   | South Dakota       | MAPP                     | EIA-412                  |
| Modesto Irrigation District.....     | California         | WSCC                     | EIA-412                  |
| Municipal Electric Authority.....    | Georgia            | SERC                     | EIA-412                  |
| Municipal Energy Agency of NE.....   | Nebraska           | MAPP                     | EIA-412                  |
| MSR Public Power Agency.....         | California         | WSCC                     | EIA-412                  |
| Navajo Tribal Utility Auth.....      | Arizona            | WSCC                     | EIA-412                  |
| Nebraska Public Power District.....  | Nebraska           | MAPP                     | EIA-412                  |
| New River Light & Power Co.....      | North Carolina     | SERC                     | EIA-412                  |
| Norris Public Power District.....    | Nebraska           | MAPP                     | EIA-412                  |
| North Central Public Pwr Dist.....   | Nebraska           | MAPP                     | RUS-7                    |
| Northeast Nebraska Rural P P D.....  | Nebraska           | MAPP                     | RUS-7                    |
| Northern California Power Agny.....  | California         | WSCC                     | EIA-412                  |
| Northern Municipal Power Agny.....   | Minnesota          | MAPP                     | EIA-412                  |
| Northern Wasco County P U D.....     | Oregon             | WSCC                     | EIA-412                  |
| Oakdale & South San Joaquin.....     | California         | WSCC                     | EIA-412                  |
| Oklahoma Municipal Power Auth.....   | Oklahoma           | SPP                      | EIA-412                  |
| Omaha Public Power District.....     | Nebraska           | MAPP                     | EIA-412                  |
| Oroville-Wyandotte Irrig Dist.....   | California         | WSCC                     | EIA-412                  |
| Overton Power District No 5.....     | Nevada             | WSCC                     | EIA-412                  |
| Placer County Water Agency.....      | California         | WSCC                     | EIA-412                  |
| Platte River Power Authority.....    | Colorado           | WSCC                     | EIA-412                  |
| Polk County Rural Pub Pwr Dist.....  | Nebraska           | MAPP                     | RUS-7                    |
| Power Authority of State of NY.....  | New York           | NPCC                     | EIA-412                  |
| PUD No 1 of Benton County.....       | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Chelan County.....       | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Clallam County.....      | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Clark County.....        | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Cowlitz County.....      | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Douglas County.....      | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Ferry County.....        | Washington         | WSCC                     | RUS-7                    |
| PUD No 1 of Franklin County.....     | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Grays Harbor Cnty.....   | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Klickitat County.....    | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Lewis County.....        | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Mason County.....        | Washington         | WSCC                     | RUS-7                    |
| PUD No 1 of Okanogan County.....     | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Pend Oreille Cnty.....   | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Snohomish County.....    | Washington         | WSCC                     | EIA-412                  |
| PUD No 1 of Whatcom County.....      | Washington         | WSCC                     | EIA-412                  |
| PUD No 2 of Grant County.....        | Washington         | WSCC                     | EIA-412                  |
| PUD No 2 of Pacific County.....      | Washington         | WSCC                     | EIA-412                  |
| PUD No 3 of Mason County.....        | Washington         | WSCC                     | EIA-412                  |
| Sacramento Municipal Util Dist.....  | California         | WSCC                     | EIA-412                  |

See footnotes at end of table.

**Table B3. State and Other Government Utilities, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Salt River Proj Ag I & P Dist.....  | Arizona            | WSCC                     | EIA-412                  |
| Sam Rayburn Municipal Pwr Agny..... | Texas              | SPP                      | EIA-412                  |
| Seward County Rrl Pub Pwr Dist..... | Nebraska           | MAPP                     | RUS-7                    |
| South Carolina Pub Serv Auth.....   | South Carolina     | SERC                     | EIA-412                  |
| Southern California P P A.....      | California         | WSCC                     | EIA-412                  |
| Southern Minnesota Mun P Agny.....  | Minnesota          | MAPP                     | EIA-412                  |
| Southern Nebraska Rural P P D.....  | Nebraska           | MAPP                     | EIA-412                  |
| Stanton County Public Pwr Dist..... | Nebraska           | MAPP                     | RUS-7                    |
| Tillamook Peoples Utility Dist..... | Oregon             | WSCC                     | EIA-412                  |
| Tlingit & Haida Region El Auth..... | Alaska             | ASCC                     | RUS-7                    |
| Tohono O 'Odham Utility Auth.....   | Arizona            | WSCC                     | EIA-412                  |
| Toledo Bend Project Joint Oper..... | Texas              | SPP                      | EIA-412                  |
| Twin Valleys Public Power Dist..... | Nebraska           | MAPP                     | RUS-7                    |
| Utah Associated Mun Power Sys.....  | Utah               | WSCC                     | EIA-412                  |
| Utah Municipal Power Agency.....    | Utah               | WSCC                     | EIA-412                  |
| Vera Irrigation District # 15.....  | Washington         | WSCC                     | EIA-412                  |
| Vermont Public Pwr Supply Auth..... | Vermont            | NPCC                     | EIA-412                  |
| Virginia Tech Electric Service..... | Virginia           | ECAR                     | EIA-412                  |
| Washington Pub Pwr Supply Sys.....  | Washington         | WSCC                     | EIA-412                  |
| Wayne County Public Power Dist..... | Nebraska           | MAPP                     | RUS-7                    |
| Wheat Belt Public Power Dist.....   | Nebraska           | WSCC                     | RUS-7                    |
| Wyoming Municipal Power Agency..... | Wyoming            | WSCC                     | EIA-412                  |
| Yuba County Water Agency.....       | California         | WSCC                     | EIA-412                  |

<sup>1</sup> The State in which the authority is located.

<sup>2</sup> The principal North American Electric Reliability Council region in which the utility operates. See glossary for a list of all regions.

<sup>3</sup> Source of data for this publication

Sources: •Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities." •Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," RUS Form 12a through 12i, "Electric Power Supply Borrowers," Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities." •Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

**Table B4. Municipal Utilities, 1996**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Alabama Municipal Elec Auth.....    | Alabama            | SERC                     | EIA-412                  |
| Alameda City of.....                | California         | WSCC                     | EIA-412                  |
| Albany Water Gas & Light Comm.....  | Georgia            | SERC                     | EIA-412                  |
| Albemarle City of.....              | North Carolina     | SERC                     | EIA-412                  |
| Albertville Municipal Utils Bd..... | Alabama            | SERC                     | EIA-412                  |
| Alcoa Utilities.....                | Tennessee          | SERC                     | EIA-412                  |
| Alexandria City of.....             | Minnesota          | MAPP                     | EIA-412                  |
| Alexandria City of.....             | Louisiana          | SPP                      | EIA-412                  |
| Altus City of.....                  | Oklahoma           | SPP                      | EIA-412                  |
| American Mun Power-Ohio Inc.....    | Ohio               | ECAR                     | EIA-412                  |
| Ames City of.....                   | Iowa               | MAPP                     | EIA-412                  |
| Anaheim City of.....                | California         | WSCC                     | EIA-412                  |
| Anchorage City of.....              | Alaska             | ASCC                     | EIA-412                  |
| Andalusia City of.....              | Alabama            | SERC                     | EIA-412                  |
| Anderson City of.....               | Indiana            | ECAR                     | EIA-412                  |
| Anoka City of.....                  | Minnesota          | MAPP                     | EIA-412                  |
| Ashland City of.....                | Oregon             | WSCC                     | EIA-412                  |
| Athens City of.....                 | Alabama            | SERC                     | EIA-412                  |
| Athens Utility Board.....           | Tennessee          | SERC                     | EIA-412                  |
| Auburn City of.....                 | Indiana            | ECAR                     | EIA-412                  |
| Austin City of.....                 | Minnesota          | MAPP                     | EIA-412                  |
| Austin City of.....                 | Texas              | ERCOT                    | EIA-412                  |
| Azusa City of.....                  | California         | WSCC                     | EIA-412                  |
| Badger Power Marketing Auth.....    | Wisconsin          | MAIN                     | EIA-412                  |
| Bardstown City of.....              | Kentucky           | ECAR                     | EIA-412                  |
| Bartow City of.....                 | Florida            | SERC                     | EIA-412                  |
| Batavia City of.....                | Illinois           | MAIN                     | EIA-412                  |
| Bay City City of.....               | Michigan           | ECAR                     | EIA-412                  |
| Beatrice City of.....               | Nebraska           | MAPP                     | EIA-412                  |
| Bedford City of.....                | Virginia           | ECAR                     | EIA-412                  |
| Benton City of.....                 | Arkansas           | SPP                      | EIA-412                  |
| Benton County.....                  | Tennessee          | SERC                     | EIA-412                  |
| Bentonville City of.....            | Arkansas           | SPP                      | EIA-412                  |
| Bessemer City of.....               | Alabama            | SERC                     | EIA-412                  |
| Bluffton City of.....               | Indiana            | ECAR                     | EIA-412                  |
| Bolivar City of.....                | Tennessee          | SERC                     | EIA-412                  |
| Bountiful City City of.....         | Utah               | WSCC                     | EIA-412                  |
| Bowling Green City of.....          | Ohio               | ECAR                     | EIA-412                  |
| Bowling Green City of.....          | Kentucky           | SERC                     | EIA-412                  |
| Brainerd Public Utilities.....      | Minnesota          | MAPP                     | EIA-412                  |
| Braintree Town of.....              | Massachusetts      | NPCC                     | EIA-412                  |
| Brenham City of.....                | Texas              | ERCOT                    | EIA-412                  |
| Bristol City of.....                | Tennessee          | SERC                     | EIA-412                  |
| Bristol Utilities Board.....        | Virginia           | SERC                     | EIA-412                  |
| Brookings City of.....              | South Dakota       | MAPP                     | EIA-412                  |
| Brownsville Public Utils Board..... | Texas              | ERCOT                    | EIA-412                  |
| Bryan City of.....                  | Ohio               | ECAR                     | EIA-412                  |
| Bryan City of.....                  | Texas              | ERCOT                    | EIA-412                  |
| Burbank City of.....                | California         | WSCC                     | EIA-412                  |
| Burlington City of.....             | Vermont            | NPCC                     | EIA-412                  |
| Calhoun City of.....                | Georgia            | SERC                     | EIA-412                  |
| Camden City of.....                 | South Carolina     | SERC                     | EIA-412                  |
| Carroll County.....                 | Tennessee          | SERC                     | EIA-412                  |
| Cartersville City of.....           | Georgia            | SERC                     | EIA-412                  |
| Carthage City of.....               | Missouri           | SPP                      | EIA-412                  |
| Cedar Falls City of.....            | Iowa               | MAPP                     | EIA-412                  |
| Celina City of.....                 | Ohio               | ECAR                     | EIA-412                  |
| Centralia City of.....              | Washington         | WSCC                     | EIA-412                  |
| Chambersburg Borough of.....        | Pennsylvania       | ECAR                     | EIA-412                  |
| Chanute City of.....                | Kansas             | SPP                      | EIA-412                  |
| Chaska City of.....                 | Minnesota          | MAPP                     | EIA-412                  |
| Chattanooga City of.....            | Tennessee          | SERC                     | EIA-412                  |
| Chicopee City of.....               | Massachusetts      | NPCC                     | EIA-412                  |
| Claremore City of.....              | Oklahoma           | SPP                      | EIA-412                  |
| Clarksdale City of.....             | Mississippi        | SPP                      | EIA-412                  |
| Clarksville City of.....            | Tennessee          | SERC                     | EIA-412                  |
| Clarksville Light & Water Co.....   | Arkansas           | SPP                      | EIA-412                  |
| Cleveland City of.....              | Tennessee          | SERC                     | EIA-412                  |
| Cleveland City of.....              | Ohio               | ECAR                     | EIA-412                  |
| Clinton City of.....                | Tennessee          | SERC                     | EIA-412                  |
| Coffeyville City of.....            | Kansas             | SPP                      | EIA-412                  |
| Coldwater Board of Public Util..... | Michigan           | ECAR                     | EIA-412                  |
| College Park City of.....           | Georgia            | SERC                     | EIA-412                  |
| College Station City of.....        | Texas              | ERCOT                    | EIA-412                  |
| Colorado Springs City of.....       | Colorado           | WSCC                     | EIA-412                  |
| Colton City of.....                 | California         | WSCC                     | EIA-412                  |

See footnotes at end of table.



**Table B4. Municipal Utilities, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Columbia City of .....              | Tennessee          | SERC                     | EIA-412                  |
| Columbia City of .....              | Missouri           | MAIN                     | EIA-412                  |
| Columbus City of.....               | Ohio               | ECAR                     | EIA-412                  |
| Columbus City of.....               | Mississippi        | SERC                     | EIA-412                  |
| Concord City of.....                | North Carolina     | SERC                     | EIA-412                  |
| Concord Town of.....                | Massachusetts      | NPCC                     | EIA-412                  |
| Connecticut Mun Elec Engy Coop..... | Connecticut        | NPCC                     | EIA-412                  |
| Conway Corp.....                    | Arkansas           | SPP                      | EIA-412                  |
| Cookeville City of .....            | Tennessee          | SERC                     | EIA-412                  |
| Covington City of.....              | Georgia            | SERC                     | EIA-412                  |
| Covington City of.....              | Tennessee          | SERC                     | EIA-412                  |
| Crawfordsville Elec Lgt&Pwr Co..... | Indiana            | ECAR                     | EIA-412                  |
| Cullman Power Board .....           | Alabama            | SERC                     | EIA-412                  |
| Cuyahoga Falls City of.....         | Ohio               | ECAR                     | EIA-412                  |
| Dalton City of.....                 | Georgia            | SERC                     | EIA-412                  |
| Danvers Town of.....                | Massachusetts      | NPCC                     | EIA-412                  |
| Danville City of.....               | Virginia           | ECAR                     | EIA-412                  |
| Decatur City of.....                | Alabama            | SERC                     | EIA-412                  |
| Denton City of.....                 | Texas              | ERCOT                    | EIA-412                  |
| Detroit City of.....                | Michigan           | ECAR                     | EIA-412                  |
| Dickson City of.....                | Tennessee          | SERC                     | EIA-412                  |
| Dothan City of.....                 | Alabama            | SERC                     | EIA-412                  |
| Douglas City of.....                | Georgia            | SERC                     | EIA-412                  |
| Dover City of.....                  | Delaware           | MAAC                     | EIA-412                  |
| Dover City of.....                  | Ohio               | ECAR                     | EIA-412                  |
| Duncan City of.....                 | Oklahoma           | SPP                      | EIA-412                  |
| Dyersburg City of.....              | Tennessee          | SERC                     | EIA-412                  |
| Easley Combined Utility System..... | South Carolina     | SERC                     | EIA-412                  |
| East Point City of.....             | Georgia            | SERC                     | EIA-412                  |
| Easton Utilities Comm.....          | Maryland           | MAAC                     | EIA-412                  |
| Edmond City of.....                 | Oklahoma           | SPP                      | EIA-412                  |
| Elizabeth City City of.....         | North Carolina     | SERC                     | EIA-412                  |
| Elizabethton City of.....           | Tennessee          | SERC                     | EIA-412                  |
| Ellensburg City of.....             | Washington         | WSCC                     | EIA-412                  |
| Ephrata Borough of .....            | Pennsylvania       | MAAC                     | EIA-412                  |
| Erwin Town of.....                  | Tennessee          | SERC                     | EIA-412                  |
| Eugene City of.....                 | Oregon             | WSCC                     | EIA-412                  |
| Fairbanks City of.....              | Alaska             | ASCC                     | EIA-412                  |
| Fairmont Public Utilities Comm..... | Minnesota          | MAPP                     | EIA-412                  |
| Fairport Village of.....            | New York           | NPCC                     | EIA-412                  |
| Farmington City of.....             | New Mexico         | WSCC                     | EIA-412                  |
| Fayetteville City of.....           | Tennessee          | SERC                     | EIA-412                  |
| Fayetteville Public Works Comm..... | North Carolina     | SERC                     | EIA-412                  |
| Fitzgerald Wtr Lgt & Bond Comm..... | Georgia            | SERC                     | EIA-412                  |
| Florence City of.....               | Alabama            | SERC                     | EIA-412                  |
| Floresville City of.....            | Texas              | ERCOT                    | EIA-412                  |
| Florida Municipal Power Agency..... | Florida            | SERC                     | EIA-412                  |
| Foley City of (Riviera Utils).....  | Alabama            | SERC                     | EIA-412                  |
| Forest City Town of.....            | North Carolina     | SERC                     | EIA-412                  |
| Forest Grove City of.....           | Oregon             | WSCC                     | EIA-412                  |
| Fort Collins City of.....           | Colorado           | WSCC                     | EIA-412                  |
| Fort Morgan City of.....            | Colorado           | WSCC                     | EIA-412                  |
| Fort Payne Improvement Auth.....    | Alabama            | SERC                     | EIA-412                  |
| Fort Pierce Utilities Auth.....     | Florida            | SERC                     | EIA-412                  |
| Frankfort City of.....              | Indiana            | ECAR                     | EIA-412                  |
| Frankfort City of.....              | Kentucky           | ECAR                     | EIA-412                  |
| Freeport Village of Inc.....        | New York           | NPCC                     | EIA-412                  |
| Fremont City of.....                | Nebraska           | MAPP                     | EIA-412                  |
| Gaffney City of.....                | South Carolina     | SERC                     | EIA-412                  |
| Gainesville Regional Utilities..... | Florida            | SERC                     | EIA-412                  |
| Gallatin City of.....               | Tennessee          | SERC                     | EIA-412                  |
| Gallup City of.....                 | New Mexico         | WSCC                     | EIA-412                  |
| Garden City City of.....            | Kansas             | SPP                      | EIA-412                  |
| Garland City of.....                | Texas              | ERCOT                    | EIA-412                  |
| Gastonia City of.....               | North Carolina     | SERC                     | EIA-412                  |
| Geneva City of.....                 | Illinois           | MAIN                     | EIA-412                  |
| Georgetown City of.....             | Texas              | ERCOT                    | EIA-412                  |
| Gillette City of.....               | Wyoming            | WSCC                     | EIA-412                  |
| Glendale City of.....               | California         | WSCC                     | EIA-412                  |
| Grand Haven City of.....            | Michigan           | ECAR                     | EIA-412                  |
| Grand Island City of.....           | Nebraska           | MAPP                     | EIA-412                  |
| Greeneville City of.....            | Tennessee          | SERC                     | EIA-412                  |
| Greenfield City of.....             | Indiana            | ECAR                     | EIA-412                  |
| Greenville Electric Util Sys.....   | Texas              | ERCOT                    | EIA-412                  |
| Greenville Utilities Comm.....      | North Carolina     | SERC                     | EIA-412                  |
| Greenwood Commissioners-Pub Wk..... | South Carolina     | SERC                     | EIA-412                  |

See footnotes at end of table.

**Table B4. Municipal Utilities, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Greenwood Utilities Comm.....       | Mississippi        | SPP                      | EIA-412                  |
| Greer Comm of Public Works.....     | South Carolina     | SERC                     | EIA-412                  |
| Griffin City of.....                | Georgia            | SERC                     | EIA-412                  |
| Groton City of.....                 | Connecticut        | NPCC                     | EIA-412                  |
| Guntersville Electric Board.....    | Alabama            | SERC                     | EIA-412                  |
| Hagerstown City of.....             | Maryland           | ECAR                     | EIA-412                  |
| Hamilton City of.....               | Ohio               | ECAR                     | EIA-412                  |
| Hannibal City of.....               | Missouri           | MAIN                     | EIA-412                  |
| Harriman City of.....               | Tennessee          | SERC                     | EIA-412                  |
| Harrisonburg City of.....           | Virginia           | SERC                     | EIA-412                  |
| Hastings City of.....               | Nebraska           | MAPP                     | EIA-412                  |
| Henderson City Utility Comm.....    | Kentucky           | ECAR                     | EIA-412                  |
| High Point Town of.....             | North Carolina     | SERC                     | EIA-412                  |
| Hillsdale Board of Public Wks.....  | Michigan           | ECAR                     | EIA-412                  |
| Hingham City of.....                | Massachusetts      | NPCC                     | EIA-412                  |
| Holland City of.....                | Michigan           | ECAR                     | EIA-412                  |
| Holly Springs City of.....          | Mississippi        | SERC                     | EIA-412                  |
| Holyoke City of.....                | Massachusetts      | NPCC                     | EIA-412                  |
| Homestead City of.....              | Florida            | SERC                     | EIA-412                  |
| Hope City of.....                   | Arkansas           | SPP                      | EIA-412                  |
| Hopkinsville City of.....           | Kentucky           | SERC                     | EIA-412                  |
| Hudson Town of.....                 | Massachusetts      | NPCC                     | EIA-412                  |
| Humboldt City of.....               | Tennessee          | SERC                     | EIA-412                  |
| Huntsville City of.....             | Alabama            | SERC                     | EIA-412                  |
| Hutchinson Utilities Comm.....      | Minnesota          | MAPP                     | EIA-412                  |
| Idaho Falls City of.....            | Idaho              | WSCC                     | EIA-412                  |
| Illinois Municipal Elec Agency..... | Illinois           | MAIN                     | EIA-412                  |
| Independence City of.....           | Missouri           | SPP                      | EIA-412                  |
| Intermountain Power Agency.....     | Utah               | WSCC                     | EIA-412                  |
| Jackson City of.....                | Tennessee          | SERC                     | EIA-412                  |
| Jacksonville Beach City of.....     | Florida            | SERC                     | EIA-412                  |
| Jacksonville Electric Auth.....     | Florida            | SERC                     | EIA-412                  |
| Jamestown City of.....              | New York           | NPCC                     | EIA-412                  |
| Jasper City of.....                 | Texas              | SPP                      | EIA-412                  |
| Jasper City of.....                 | Indiana            | ECAR                     | EIA-412                  |
| Jefferson City of.....              | Wisconsin          | MAIN                     | EIA-412                  |
| Johnson City City of.....           | Tennessee          | SERC                     | EIA-412                  |
| Jonesboro City of.....              | Arkansas           | SPP                      | EIA-412                  |
| Kansas City City of.....            | Kansas             | SPP                      | EIA-412                  |
| Kaukauna City of.....               | Wisconsin          | MAIN                     | EIA-412                  |
| Kennett City of.....                | Missouri           | SPP                      | EIA-412                  |
| Kerrville Public Utility Board..... | Texas              | ERCOT                    | EIA-412                  |
| Ketchikan City of.....              | Alaska             | ASCC                     | EIA-412                  |
| Key West City of.....               | Florida            | SERC                     | EIA-412                  |
| Kinston City of.....                | North Carolina     | SERC                     | EIA-412                  |
| Kirkwood City of.....               | Missouri           | MAIN                     | EIA-412                  |
| Kissimmee Utility Authority.....    | Florida            | SERC                     | EIA-412                  |
| Knoxville Utilities Board.....      | Tennessee          | SERC                     | EIA-412                  |
| La Grange City of.....              | Georgia            | SERC                     | EIA-412                  |
| Lafayette City of.....              | Louisiana          | SPP                      | EIA-412                  |
| Lake Placid Village Inc.....        | New York           | NPCC                     | EIA-412                  |
| Lake Worth City of.....             | Florida            | SERC                     | EIA-412                  |
| Lakeland City of.....               | Florida            | SERC                     | EIA-412                  |
| Lansdale Borough of.....            | Pennsylvania       | MAAC                     | EIA-412                  |
| Lansing City of.....                | Michigan           | ECAR                     | EIA-412                  |
| Lassen Municipal Utility Dist.....  | California         | WSCC                     | EIA-412                  |
| Laurinburg City of.....             | North Carolina     | SERC                     | EIA-412                  |
| Lawrenceburg City of.....           | Tennessee          | SERC                     | EIA-412                  |
| Lawrenceville City of.....          | Georgia            | SERC                     | EIA-412                  |
| LaFollette City of.....             | Tennessee          | SERC                     | EIA-412                  |
| Lebanon City of.....                | Indiana            | ECAR                     | EIA-412                  |
| Lebanon City of.....                | Tennessee          | SERC                     | EIA-412                  |
| Lebanon City of.....                | Missouri           | SPP                      | EIA-412                  |
| Leesburg City of.....               | Florida            | SERC                     | EIA-412                  |
| Lenoir City City of.....            | Tennessee          | SERC                     | EIA-412                  |
| Lewisburg City of.....              | Tennessee          | SERC                     | EIA-412                  |
| Lexington City of.....              | North Carolina     | SERC                     | EIA-412                  |
| Lexington City of.....              | Tennessee          | SERC                     | EIA-412                  |
| Lincoln Electric System.....        | Nebraska           | MAPP                     | EIA-412                  |
| Littleton Town of.....              | Massachusetts      | NPCC                     | EIA-412                  |
| Lodi City of.....                   | California         | WSCC                     | EIA-412                  |
| Logan City of.....                  | Utah               | WSCC                     | EIA-412                  |
| Logansport City of.....             | Indiana            | ECAR                     | EIA-412                  |
| Longmont City of.....               | Colorado           | WSCC                     | EIA-412                  |
| Los Alamos County.....              | New Mexico         | WSCC                     | EIA-412                  |
| Los Angeles City of.....            | California         | WSCC                     | EIA-412                  |

See footnotes at end of table.

**Table B4. Municipal Utilities, 1996 (Continued)**

| Utility                        | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|--------------------------------|--------------------|--------------------------|--------------------------|
| Loudon Utilities Board         | Tennessee          | SERC                     | EIA-412                  |
| Loveland City of               | Colorado           | WSCC                     | EIA-412                  |
| Lubbock City of                | Texas              | SPP                      | EIA-412                  |
| Lumberton City of              | North Carolina     | SERC                     | EIA-412                  |
| Madison Borough                | New Jersey         | MAAC                     | EIA-412                  |
| Madisonville Municipal Utils   | Kentucky           | ECAR                     | EIA-412                  |
| Manassas City of               | Virginia           | SERC                     | EIA-412                  |
| Manitowoc Public Utilities     | Wisconsin          | MAIN                     | EIA-412                  |
| Mansfield Town of              | Massachusetts      | NPCC                     | EIA-412                  |
| Marietta City of               | Georgia            | SERC                     | EIA-412                  |
| Marquette City of              | Michigan           | MAIN                     | EIA-412                  |
| Marshall City of               | Minnesota          | MAPP                     | EIA-412                  |
| Marshall City of               | Missouri           | SPP                      | EIA-412                  |
| Marshfield City of             | Wisconsin          | MAIN                     | EIA-412                  |
| Martinsville City of           | Virginia           | ECAR                     | EIA-412                  |
| Maryville Utilities            | Tennessee          | SERC                     | EIA-412                  |
| Massena Town of                | New York           | NPCC                     | EIA-412                  |
| McMinnville City of            | Oregon             | WSCC                     | EIA-412                  |
| McMinnville Electric System    | Tennessee          | SERC                     | EIA-412                  |
| McPherson City of              | Kansas             | SPP                      | EIA-412                  |
| Memphis City of                | Tennessee          | SERC                     | EIA-412                  |
| Menasha City of                | Wisconsin          | MAIN                     | EIA-412                  |
| Mesa City of                   | Arizona            | WSCC                     | EIA-412                  |
| Metropolitan Water District    | California         | WSCC                     | EIA-412                  |
| Miami City of                  | Oklahoma           | SPP                      | EIA-412                  |
| Middleborough Town of          | Massachusetts      | NPCC                     | EIA-412                  |
| Milan City of                  | Tennessee          | SERC                     | EIA-412                  |
| Milford City of                | Delaware           | MAAC                     | EIA-412                  |
| Mishawaka City of              | Indiana            | ECAR                     | EIA-412                  |
| Monett City of                 | Missouri           | SPP                      | EIA-412                  |
| Monroe City of                 | North Carolina     | SERC                     | EIA-412                  |
| Moorhead City of               | Minnesota          | MAPP                     | EIA-412                  |
| Morgan City City of            | Louisiana          | SPP                      | EIA-412                  |
| Morganton City of              | North Carolina     | SERC                     | EIA-412                  |
| Morristown City of             | Tennessee          | SERC                     | EIA-412                  |
| Moultrie City of               | Georgia            | SERC                     | EIA-412                  |
| Municipal Energy Agency of MS  | Mississippi        | SPP                      | EIA-412                  |
| Murfreesboro City of           | Tennessee          | SERC                     | EIA-412                  |
| Murray City of                 | Utah               | WSCC                     | EIA-412                  |
| Murray City of                 | Kentucky           | SERC                     | EIA-412                  |
| Muscatine City of              | Iowa               | MAPP                     | EIA-412                  |
| Naperville City of             | Illinois           | MAIN                     | EIA-412                  |
| Napoleon City of               | Ohio               | ECAR                     | EIA-412                  |
| Nashville Electric Service     | Tennessee          | SERC                     | EIA-412                  |
| Natchitoches City of           | Louisiana          | SPP                      | EIA-412                  |
| New Albany City of             | Mississippi        | SERC                     | EIA-412                  |
| New Bern City of               | North Carolina     | SERC                     | EIA-412                  |
| New Braunfels City of          | Texas              | ERCOT                    | EIA-412                  |
| New London Electric&Water Util | Wisconsin          | MAIN                     | EIA-412                  |
| New Smyrna Beach Utils Comm    | Florida            | SERC                     | EIA-412                  |
| New Ulm Public Utilities Comm  | Minnesota          | MAPP                     | EIA-412                  |
| Newark City of                 | Delaware           | MAAC                     | EIA-412                  |
| Newberry City of               | South Carolina     | SERC                     | EIA-412                  |
| Newport City of                | Tennessee          | SERC                     | EIA-412                  |
| Niles City of                  | Ohio               | ECAR                     | EIA-412                  |
| North Attleborough Town of     | Massachusetts      | NPCC                     | EIA-412                  |
| North Carolina Eastern M P A   | North Carolina     | SERC                     | EIA-412                  |
| North Carolina Mun Power Agny  | North Carolina     | SERC                     | EIA-412                  |
| North Little Rock City of      | Arkansas           | SPP                      | EIA-412                  |
| North Platte City of           | Nebraska           | MAPP                     | EIA-412                  |
| Norwich City of                | Connecticut        | NPCC                     | EIA-412                  |
| Norwood City of                | Massachusetts      | NPCC                     | EIA-412                  |
| Oak Ridge City of              | Tennessee          | SERC                     | EIA-412                  |
| Ocala City of                  | Florida            | SERC                     | EIA-412                  |
| Oconomowoc City of             | Wisconsin          | MAIN                     | EIA-412                  |
| Okolona City of                | Mississippi        | SERC                     | RUS-7                    |
| Opelika City of                | Alabama            | SERC                     | EIA-412                  |
| Orangeburg City of             | South Carolina     | SERC                     | EIA-412                  |
| Orlando Utilities Comm         | Florida            | SERC                     | EIA-412                  |
| Orrville City of               | Ohio               | ECAR                     | EIA-412                  |
| Osceola City of                | Arkansas           | SPP                      | EIA-412                  |
| Owatonna City of               | Minnesota          | MAPP                     | EIA-412                  |
| Owensboro City of              | Kentucky           | ECAR                     | EIA-412                  |
| Paducah City of                | Kentucky           | ECAR                     | EIA-412                  |
| Painesville City of            | Ohio               | ECAR                     | EIA-412                  |
| Palo Alto City of              | California         | WSCC                     | EIA-412                  |

See footnotes at end of table.

**Table B4. Municipal Utilities, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Paragould Light & Water Comm.....   | Arkansas           | SPP                      | EIA-412                  |
| Paris City of.....                  | Tennessee          | SERC                     | EIA-412                  |
| Pasadena City of.....               | California         | WSCC                     | EIA-412                  |
| Peabody City of.....                | Massachusetts      | NPCC                     | EIA-412                  |
| Pella City of.....                  | Iowa               | MAPP                     | EIA-412                  |
| Peru City of.....                   | Indiana            | ECAR                     | EIA-412                  |
| Piedmont Municipal Power Agny.....  | South Carolina     | SERC                     | EIA-412                  |
| Pierre City of.....                 | South Dakota       | MAPP                     | EIA-412                  |
| Piqua City of.....                  | Ohio               | ECAR                     | EIA-412                  |
| Plattsburgh City of.....            | New York           | NPCC                     | EIA-412                  |
| Plymouth City of.....               | Wisconsin          | MAIN                     | EIA-412                  |
| Ponca City City of.....             | Oklahoma           | SPP                      | EIA-412                  |
| Poplar Bluff City of.....           | Missouri           | SPP                      | EIA-412                  |
| Port Angeles City of.....           | Washington         | WSCC                     | EIA-412                  |
| Provo City Corp.....                | Utah               | WSCC                     | EIA-412                  |
| Pulaski City of.....                | Tennessee          | SERC                     | EIA-412                  |
| Quincy City of.....                 | Florida            | SERC                     | EIA-412                  |
| Radford City of.....                | Virginia           | ECAR                     | EIA-412                  |
| Reading Town of.....                | Massachusetts      | NPCC                     | EIA-412                  |
| Redding City of.....                | California         | WSCC                     | EIA-412                  |
| Reedsburg Utility Comm.....         | Wisconsin          | MAPP                     | EIA-412                  |
| Reedy Creek Improvement Dist.....   | Florida            | SERC                     | EIA-412                  |
| Richland City of.....               | Washington         | WSCC                     | EIA-412                  |
| Richmond City of.....               | Indiana            | ECAR                     | EIA-412                  |
| Ripley City of.....                 | Tennessee          | SERC                     | EIA-412                  |
| Riverside City of.....              | California         | WSCC                     | EIA-412                  |
| Rochelle Municipal Utilities.....   | Illinois           | MAIN                     | EIA-412                  |
| Rochester Public Utilities.....     | Minnesota          | MAPP                     | EIA-412                  |
| Rock Hill City of.....              | South Carolina     | SERC                     | EIA-412                  |
| Rockville Centre Village of.....    | New York           | NPCC                     | EIA-412                  |
| Rockwood City of.....               | Tennessee          | SERC                     | EIA-412                  |
| Rocky Mount City of.....            | North Carolina     | SERC                     | EIA-412                  |
| Rolla City of.....                  | Missouri           | SPP                      | EIA-412                  |
| Roseville City of.....              | California         | WSCC                     | EIA-412                  |
| Ruston City of.....                 | Louisiana          | SPP                      | EIA-412                  |
| Salem City of.....                  | Virginia           | ECAR                     | EIA-412                  |
| San Antonio Public Service Bd.....  | Texas              | ERCOT                    | EIA-412                  |
| San Francisco City & County of..... | California         | WSCC                     | EIA-412                  |
| San Marcos City of.....             | Texas              | ERCOT                    | EIA-412                  |
| Santa Clara City of.....            | California         | WSCC                     | EIA-412                  |
| Scottsboro City of.....             | Alabama            | SERC                     | EIA-412                  |
| Scottsburg City of.....             | Indiana            | ECAR                     | EIA-412                  |
| Seattle City of.....                | Washington         | WSCC                     | EIA-412                  |
| Seguin City of.....                 | Texas              | ERCOT                    | EIA-412                  |
| Seneca City of.....                 | South Carolina     | SERC                     | EIA-412                  |
| Shakopee Public Utilities Comm..... | Minnesota          | MAPP                     | EIA-412                  |
| Shawano Municipal Utilities.....    | Wisconsin          | MAIN                     | EIA-412                  |
| Sheboygan Falls City of.....        | Wisconsin          | MAIN                     | EIA-412                  |
| Sheffield Utilities.....            | Alabama            | SERC                     | EIA-412                  |
| Shelby City of.....                 | North Carolina     | SERC                     | EIA-412                  |
| Shelbyville City of.....            | Tennessee          | SERC                     | EIA-412                  |
| Shrewsbury Town of.....             | Massachusetts      | NPCC                     | EIA-412                  |
| Sikeston City of.....               | Missouri           | SPP                      | EIA-412                  |
| Siloam Springs City of.....         | Arkansas           | SPP                      | EIA-412                  |
| Solvay Village of.....              | New York           | NPCC                     | EIA-412                  |
| Springfield City of.....            | Illinois           | MAIN                     | EIA-412                  |
| Springfield City of.....            | Tennessee          | SERC                     | EIA-412                  |
| Springfield City of.....            | Missouri           | SPP                      | EIA-412                  |
| Springfield City of.....            | Oregon             | WSCC                     | EIA-412                  |
| St Charles City of.....             | Illinois           | MAIN                     | EIA-412                  |
| St Cloud City of.....               | Florida            | SERC                     | EIA-412                  |
| St George City of.....              | Utah               | WSCC                     | EIA-412                  |
| St Marys City of.....               | Ohio               | ECAR                     | EIA-412                  |
| Starkville City of.....             | Mississippi        | SERC                     | EIA-412                  |
| Statesville City of.....            | North Carolina     | SERC                     | EIA-412                  |
| Stillwater Utilities Authority..... | Oklahoma           | SPP                      | EIA-412                  |
| Sturgeon Bay City of.....           | Wisconsin          | MAIN                     | EIA-412                  |
| Sturgis City of.....                | Michigan           | ECAR                     | EIA-412                  |
| Sun Prairie Water & Light Comm..... | Wisconsin          | MAIN                     | EIA-412                  |
| Sylacauga Utilities Board.....      | Alabama            | SERC                     | EIA-412                  |
| Tacoma City of.....                 | Washington         | WSCC                     | EIA-412                  |
| Tallahassee City of.....            | Florida            | SERC                     | EIA-412                  |
| Tarboro Town of.....                | North Carolina     | SERC                     | EIA-412                  |
| Taunton City of.....                | Massachusetts      | NPCC                     | EIA-412                  |
| Terrebonne Parish Consol Gov.....   | Louisiana          | SPP                      | EIA-412                  |
| Texas Municipal Power Agency.....   | Texas              | ERCOT                    | EIA-412                  |

See footnotes at end of table.

**Table B4. Municipal Utilities, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Thomasville City of.....            | Georgia            | SERC                     | EIA-412                  |
| Traverse City City of.....          | Michigan           | ECAR                     | EIA-412                  |
| Troy City of.....                   | Alabama            | SERC                     | EIA-412                  |
| Tullahoma Board of Pub Utils.....   | Tennessee          | SERC                     | EIA-412                  |
| Tupelo City of.....                 | Mississippi        | SERC                     | EIA-412                  |
| Turlock Irrigation District.....    | California         | WSCC                     | EIA-412                  |
| Union City City of.....             | Tennessee          | SERC                     | EIA-412                  |
| Vernon City of.....                 | California         | WSCC                     | EIA-412                  |
| Vero Beach City of.....             | Florida            | SERC                     | EIA-412                  |
| Vineland City of.....               | New Jersey         | MAAC                     | EIA-412                  |
| Wadsworth City of.....              | Ohio               | ECAR                     | EIA-412                  |
| Wakefield Town of.....              | Massachusetts      | NPCC                     | EIA-412                  |
| Wallingford Town of.....            | Connecticut        | NPCC                     | EIA-412                  |
| Wapakoneta City of.....             | Ohio               | ECAR                     | EIA-412                  |
| Washington City of.....             | Indiana            | ECAR                     | EIA-412                  |
| Washington City of.....             | North Carolina     | SERC                     | EIA-412                  |
| Watertown Municipal Utilities.....  | South Dakota       | MAPP                     | EIA-412                  |
| Weakley County Mun Elec Sys.....    | Tennessee          | SERC                     | EIA-412                  |
| Weatherford Mun Utility System..... | Texas              | ERCOT                    | EIA-412                  |
| Wellesley Town of.....              | Massachusetts      | NPCC                     | EIA-412                  |
| West Memphis City of.....           | Arkansas           | SPP                      | EIA-412                  |
| West Plains City of.....            | Missouri           | SPP                      | EIA-412                  |
| Western Minnesota Mun Pwr Agny..... | Minnesota          | MAPP                     | EIA-412                  |
| Westerville City of.....            | Ohio               | ECAR                     | EIA-412                  |
| Westfield City of.....              | Massachusetts      | NPCC                     | EIA-412                  |
| Willmar Municipal Utils Comm.....   | Minnesota          | MAPP                     | EIA-412                  |
| Wilson City of.....                 | North Carolina     | SERC                     | EIA-412                  |
| Winfield City of.....               | Kansas             | SPP                      | EIA-412                  |
| Wisconsin Public Power Inc Sys..... | Wisconsin          | MAIN                     | EIA-412                  |
| Wisconsin Rapids W W & L Comm.....  | Wisconsin          | MAPP                     | EIA-412                  |
| Worthington City of.....            | Minnesota          | MAPP                     | EIA-412                  |
| Wyandotte Municipal Serv Comm.....  | Michigan           | ECAR                     | EIA-412                  |
| Zeeland City of.....                | Michigan           | ECAR                     | EIA-412                  |

<sup>1</sup> The State in which the municipality is located.

<sup>2</sup> The principal North American Electric Reliability Council region in which the utility operates. See glossary for a list of all regions.

<sup>3</sup> Source of data for this publication

Sources: •Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities." •Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

**Table B5. Cooperative Borrowers, 1996**

| Utility                              | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|--------------------------------------|--------------------|--------------------------|--------------------------|
| A & N Electric Coop .....            | Virginia           | MAAC                     | RUS-7                    |
| Adams County Coop Electric Co .....  | Iowa               | MAPP                     | RUS-7                    |
| Adams Electric Coop Inc.....         | Pennsylvania       | MAAC                     | RUS-7                    |
| Adams Electrical Coop .....          | Illinois           | MAIN                     | RUS-7                    |
| Adams Rural Electric Coop Inc.....   | Ohio               | ECAR                     | RUS-7                    |
| Adams-Columbia Electric Coop .....   | Wisconsin          | MAIN                     | RUS-7                    |
| Agralite Coop .....                  | Minnesota          | MAPP                     | RUS-7                    |
| Aiken Electric Coop Inc .....        | South Carolina     | SERC                     | RUS-7                    |
| Alabama Electric Coop Inc.....       | Alabama            | SERC                     | RUS-12                   |
| Alaska Electric G & T Coop Inc.....  | Alaska             | ASCC                     | RUS-12                   |
| Albemarle Electric Member Corp.....  | North Carolina     | SERC                     | RUS-7                    |
| Alfalfa Electric Coop Inc.....       | Oklahoma           | SPP                      | RUS-7                    |
| Alger-Delta Coop Electric Assn ..... | Michigan           | ECAR                     | RUS-7                    |
| Allamakee-Clayton El Coop Inc.....   | Iowa               | MAPP                     | RUS-7                    |
| Allegheny Electric Coop Inc.....     | Pennsylvania       | MAAC                     | RUS-12                   |
| Altamaha Electric Member Corp .....  | Georgia            | SERC                     | RUS-7                    |
| Amicalola Electric Member Corp.....  | Georgia            | SERC                     | RUS-7                    |
| Anza Electric Coop Inc.....          | California         | WSCC                     | RUS-7                    |
| Appalachian Electric Coop .....      | Tennessee          | SERC                     | RUS-7                    |
| Arab Electric Coop Inc .....         | Alabama            | SERC                     | RUS-7                    |
| Arizona Electric Pwr Coop Inc.....   | Arizona            | WSCC                     | RUS-12                   |
| Ark Valley Elec Coop Assn Inc.....   | Kansas             | SPP                      | RUS-7                    |
| Arkansas Electric Coop Corp .....    | Arkansas           | SPP                      | RUS-12                   |
| Arkansas Valley Elec Coop Corp.....  | Arkansas           | SPP                      | RUS-7                    |
| Arrowhead Electric Coop Inc .....    | Minnesota          | MAPP                     | RUS-7                    |
| Ashley Chicot Elec Coop Inc .....    | Arkansas           | SPP                      | RUS-7                    |
| Associated Electric Coop Inc.....    | Missouri           | SPP                      | RUS-12                   |
| Atchison-Holt Electric Coop.....     | Missouri           | SPP                      | RUS-7                    |
| B-K Electric Coop Inc .....          | Texas              | ERCOT                    | RUS-7                    |
| Bailey County Elec Coop Assn.....    | Texas              | SPP                      | RUS-7                    |
| Baker Electric Coop Inc.....         | North Dakota       | MAPP                     | RUS-7                    |
| Baldwin County El Member Corp.....   | Alabama            | SERC                     | RUS-7                    |
| Barry Electric Coop.....             | Missouri           | MAIN                     | RUS-7                    |
| Bartlett Electric Coop Inc .....     | Texas              | ERCOT                    | RUS-7                    |
| Barton County Elec Coop Inc.....     | Missouri           | SPP                      | RUS-7                    |
| Basin Electric Power Coop .....      | North Dakota       | WSCC                     | RUS-12                   |
| Bayfield Electric Coop Inc .....     | Wisconsin          | MAPP                     | RUS-7                    |
| Beartooth Electric Coop Inc .....    | Montana            | WSCC                     | RUS-7                    |
| Bedford Rural Elec Coop Inc .....    | Pennsylvania       | MAAC                     | RUS-7                    |
| Belfalls Electric Coop Inc .....     | Texas              | ERCOT                    | RUS-7                    |
| Beltrami Electric Coop Inc .....     | Minnesota          | MAPP                     | RUS-7                    |
| Benton Rural Electric Assn.....      | Washington         | WSCC                     | RUS-7                    |
| Berkeley Electric Coop Inc.....      | South Carolina     | SERC                     | RUS-7                    |
| Big Flat Electric Coop Inc.....      | Montana            | WSCC                     | RUS-7                    |
| Big Horn County Elec Coop Inc .....  | Montana            | WSCC                     | RUS-7                    |
| Big Horn Rural Electric Co .....     | Wyoming            | WSCC                     | RUS-7                    |
| Big Rivers Electric Corp.....        | Kentucky           | ECAR                     | RUS-12                   |
| Big Sandy Rural Elec Coop Corp ..... | Kentucky           | ECAR                     | RUS-7                    |
| Blachly-Lane Cnty Coop El Assn ..... | Oregon             | WSCC                     | RUS-7                    |
| Black Hills Electric Coop Inc.....   | South Dakota       | MAPP                     | RUS-7                    |
| Black River Electric Coop .....      | Missouri           | MAIN                     | RUS-7                    |
| Black River Electric Coop Inc.....   | South Carolina     | SERC                     | RUS-7                    |
| Black Warrior Elec Member Corp ..... | Alabama            | SERC                     | RUS-7                    |
| Blue Earth-Nicollet-Faribault.....   | Minnesota          | MAPP                     | RUS-7                    |
| Blue Grass Rural El Coop Corp.....   | Kentucky           | ECAR                     | RUS-7                    |
| Blue Ridge Elec Member Corp .....    | North Carolina     | SERC                     | RUS-7                    |
| Blue Ridge Electric Coop Inc.....    | South Carolina     | SERC                     | RUS-7                    |
| Blue Ridge Mountain E M C .....      | Georgia            | SERC                     | RUS-7                    |
| Bon Homme Yankton El Assn Inc.....   | South Dakota       | MAPP                     | RUS-7                    |
| Boone Electric Coop .....            | Missouri           | MAIN                     | RUS-7                    |
| Bowie-Cass Electric Coop Inc.....    | Texas              | SPP                      | RUS-7                    |
| Brazos Electric Power Coop Inc.....  | Texas              | ERCOT                    | RUS-12                   |
| Bridger Valley Elec Assn Inc .....   | Wyoming            | WSCC                     | RUS-7                    |
| Broad River Electric Coop Inc .....  | South Carolina     | SERC                     | RUS-7                    |
| Brown County Rural Elec Assn .....   | Minnesota          | MAPP                     | RUS-7                    |
| Brown-Atchison E C A Inc .....       | Kansas             | SPP                      | RUS-7                    |
| Brunswick Electric Member Corp.....  | North Carolina     | SERC                     | RUS-7                    |
| Buckeye Power Inc .....              | Ohio               | ECAR                     | RUS-12                   |
| Buckeye Rural Elec Coop Inc .....    | Ohio               | ECAR                     | RUS-7                    |
| Burke-Divide Electric Coop Inc ..... | North Dakota       | MAPP                     | RUS-7                    |
| Butler County Rural Elec Coop.....   | Iowa               | MAPP                     | RUS-7                    |
| Butler Rural El Coop Assn Inc.....   | Kansas             | SPP                      | RUS-7                    |
| Butler Rural Electric Coop Inc ..... | Ohio               | ECAR                     | RUS-7                    |
| Butte Electric Coop Inc.....         | South Dakota       | MAPP                     | RUS-7                    |
| BARC Electric Coop Inc .....         | Virginia           | SERC                     | RUS-7                    |
| C & L Electric Coop Corp .....       | Arkansas           | SPP                      | RUS-7                    |

See footnotes at end of table.

**Table B5. Cooperative Borrowers, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| C & W Rural Elec Coop Assn Inc..... | Kansas             | SPP                      | RUS-7                    |
| Caddo Electric Coop Inc.....        | Oklahoma           | SPP                      | RUS-7                    |
| Cajun Electric Power Coop Inc.....  | Louisiana          | SPP                      | RUS-12                   |
| Calhoun County Elec Coop Assn.....  | Iowa               | MAPP                     | RUS-7                    |
| Callaway Electric Coop.....         | Missouri           | SPP                      | RUS-7                    |
| Cam Wal Electric Coop Inc.....      | South Dakota       | MAPP                     | RUS-7                    |
| Canadian Valley Elec Coop Inc.....  | Oklahoma           | SPP                      | RUS-7                    |
| Caney Fork Electric Coop Inc.....   | Tennessee          | SERC                     | RUS-7                    |
| Caney Valley El Coop Assn Inc.....  | Kansas             | SPP                      | RUS-7                    |
| Canoochee Electric Member Corp..... | Georgia            | SERC                     | RUS-7                    |
| Cape Hatteras Elec Member Corp..... | North Carolina     | SERC                     | RUS-7                    |
| Capital Electric Coop Inc.....      | North Dakota       | MAPP                     | RUS-7                    |
| Carbon Power & Light Inc.....       | Wyoming            | WSCC                     | RUS-7                    |
| Carlton County Coop Power Assn..... | Minnesota          | MAPP                     | RUS-7                    |
| Carroll Electric Coop Corp.....     | Arkansas           | SPP                      | RUS-7                    |
| Carroll Electric Coop Inc.....      | Ohio               | ECAR                     | RUS-7                    |
| Carroll Electric Member Corp.....   | Georgia            | SERC                     | RUS-7                    |
| Carteret-Craven El Member Corp..... | North Carolina     | SERC                     | RUS-7                    |
| Cass County Electric Coop Inc.....  | North Dakota       | MAPP                     | RUS-7                    |
| Cavalier Rural Elec Coop Inc.....   | North Dakota       | MAPP                     | RUS-7                    |
| Cedar Valley Electric Coop.....     | Iowa               | MAPP                     | RUS-7                    |
| Central Alabama Electric Coop.....  | Alabama            | SERC                     | RUS-7                    |
| Central Electric Coop Inc.....      | Pennsylvania       | MAAC                     | RUS-7                    |
| Central Electric Member Corp.....   | North Carolina     | SERC                     | RUS-7                    |
| Central Electric Power Assn.....    | Mississippi        | SERC                     | RUS-7                    |
| Central Electric Power Coop.....    | Missouri           | MAIN                     | RUS-12                   |
| Central Electric Pwr Coop Inc.....  | South Carolina     | SERC                     | RUS-12                   |
| Central Florida Elec Coop Inc.....  | Florida            | SERC                     | RUS-7                    |
| Central Georgia El Member Corp..... | Georgia            | SERC                     | RUS-7                    |
| Central Iowa Power Coop.....        | Iowa               | MAPP                     | RUS-12                   |
| Central Missouri Elec Coop Inc..... | Missouri           | MAIN                     | RUS-7                    |
| Central New Mexico El Coop Inc..... | New Mexico         | WSCC                     | RUS-7                    |
| Central Power Elec Coop Inc.....    | North Dakota       | MAPP                     | RUS-12                   |
| Central Rural Electric Coop.....    | Oklahoma           | SPP                      | RUS-7                    |
| Central Texas Elec Coop Inc.....    | Texas              | ERCOT                    | RUS-7                    |
| Central Valley Elec Coop Inc.....   | New Mexico         | SPP                      | RUS-7                    |
| Central Virginia Electric Coop..... | Virginia           | SERC                     | RUS-7                    |
| Central Wisconsin Elec Coop.....    | Wisconsin          | MAIN                     | RUS-7                    |
| Chariton Valley Elec Coop Inc.....  | Iowa               | MAPP                     | RUS-7                    |
| Charles Mix Electric Assn Inc.....  | South Dakota       | MAPP                     | RUS-7                    |
| Cherokee County Elec Coop Assn..... | Texas              | ERCOT                    | RUS-7                    |
| Cherokee Electric Coop.....         | Alabama            | SERC                     | RUS-7                    |
| Cherry-Todd Electric Coop Inc.....  | South Dakota       | MAPP                     | RUS-7                    |
| Cherryland Electric Coop Inc.....   | Michigan           | ECAR                     | RUS-7                    |
| Chickasaw Electric Coop Inc.....    | Tennessee          | SERC                     | RUS-7                    |
| Chippewa Valley Electric Coop.....  | Wisconsin          | MAPP                     | RUS-7                    |
| Choctaw Electric Coop Inc.....      | Oklahoma           | SPP                      | RUS-7                    |
| Choctawhatche Elec Coop Inc.....    | Florida            | SERC                     | RUS-7                    |
| Choptank Electric Coop Inc.....     | Maryland           | MAAC                     | RUS-7                    |
| Cimarron Electric Coop.....         | Oklahoma           | SPP                      | RUS-7                    |
| Citizens Electric Corp.....         | Missouri           | SPP                      | RUS-7                    |
| Claiborne Electric Coop Inc.....    | Louisiana          | SPP                      | RUS-7                    |
| Clark Electric Coop.....            | Wisconsin          | MAPP                     | RUS-7                    |
| Clark Rural Electric Coop Corp..... | Kentucky           | ECAR                     | RUS-7                    |
| Clarke Electric Coop Inc.....       | Iowa               | MAPP                     | RUS-7                    |
| Clarke-Washington E M C.....        | Alabama            | SERC                     | RUS-7                    |
| Claverack Rural Elec Coop Inc.....  | Pennsylvania       | MAAC                     | RUS-7                    |
| Clay County Electric Coop Corp..... | Arkansas           | SPP                      | RUS-7                    |
| Clay Electric Coop Inc.....         | Illinois           | MAIN                     | RUS-7                    |
| Clay Electric Coop Inc.....         | Florida            | SERC                     | RUS-7                    |
| Clay-Union Electric Corp.....       | South Dakota       | MAPP                     | RUS-7                    |
| Clearwater Power Co.....            | Idaho              | WSCC                     | RUS-7                    |
| Clearwater-Polk Elec Coop Inc.....  | Minnesota          | MAPP                     | RUS-7                    |
| Clinton County Elec Coop Inc.....   | Illinois           | MAIN                     | RUS-7                    |
| Cloverland Electric Coop.....       | Michigan           | ECAR                     | RUS-7                    |
| Coahoma Electric Power Assn.....    | Mississippi        | SPP                      | RUS-7                    |
| Coast Electric Power Assn.....      | Mississippi        | SERC                     | RUS-7                    |
| Coastal Electric Coop Inc.....      | South Carolina     | SERC                     | RUS-7                    |
| Coastal Electric Member Corp.....   | Georgia            | SERC                     | RUS-7                    |
| Codington-Clark Elec Coop Inc.....  | South Dakota       | MAPP                     | RUS-7                    |
| Coleman County Elec Coop Inc.....   | Texas              | ERCOT                    | RUS-7                    |
| Coles-Moultrie Electric Coop.....   | Illinois           | MAIN                     | RUS-7                    |
| Colquitt Electric Members Corp..... | Georgia            | SERC                     | RUS-7                    |
| Columbia Basin Elec Coop Inc.....   | Oregon             | WSCC                     | RUS-7                    |
| Columbia Power Coop Assn Inc.....   | Oregon             | WSCC                     | RUS-7                    |
| Columbia Rural Elec Assn Inc.....   | Washington         | WSCC                     | RUS-7                    |

See footnotes at end of table.

**Table B5. Cooperative Borrowers, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Columbus Electric Coop Inc.....     | New Mexico         | WSCC                     | RUS-7                    |
| Comanche County Elec Coop Assn..... | Texas              | ERCOT                    | RUS-7                    |
| Community Electric Coop.....        | Virginia           | SERC                     | RUS-7                    |
| Concordia Electric Coop Inc.....    | Louisiana          | SPP                      | RUS-7                    |
| Consolidated Electric Coop.....     | Missouri           | SPP                      | RUS-7                    |
| Consumers Power Inc.....            | Oregon             | WSCC                     | RUS-7                    |
| Continental Divide El Coop Inc..... | New Mexico         | WSCC                     | RUS-7                    |
| Cookson Hills Elec Coop Inc.....    | Oklahoma           | SPP                      | RUS-7                    |
| Coop L & P Assn of Lake County..... | Minnesota          | MAPP                     | RUS-7                    |
| Coop Power Assn.....                | Minnesota          | MAPP                     | RUS-12                   |
| Coos-Curry Electric Coop Inc.....   | Oregon             | WSCC                     | RUS-7                    |
| Coosa Valley Electric Coop Inc..... | Alabama            | SERC                     | RUS-7                    |
| Copper Valley Elec Assn Inc.....    | Alaska             | ASCC                     | RUS-7                    |
| Corn Belt Power Coop.....           | Iowa               | MAPP                     | RUS-12                   |
| Cotton Electric Coop Inc.....       | Oklahoma           | SPP                      | RUS-7                    |
| Covington Electric Coop Inc.....    | Alabama            | SERC                     | RUS-7                    |
| Coweta-Fayette El Member Corp.....  | Georgia            | SERC                     | RUS-7                    |
| Craig-Botetourt Electric Coop.....  | Virginia           | ECAR                     | RUS-7                    |
| Craighead Electric Coop Corp.....   | Arkansas           | SPP                      | RUS-7                    |
| Crawford Electric Coop.....         | Wisconsin          | MAPP                     | RUS-7                    |
| Crawford Electric Coop Inc.....     | Missouri           | SPP                      | RUS-7                    |
| Crescent Electric Member Corp.....  | North Carolina     | SERC                     | RUS-7                    |
| Crow Wing Coop Power&Light Co.....  | Minnesota          | MAPP                     | RUS-7                    |
| Cullman Electric Coop Inc.....      | Alabama            | SERC                     | RUS-7                    |
| Cumberland Elec Member Corp.....    | Tennessee          | SERC                     | RUS-7                    |
| Cumberland Valley Rural E C C.....  | Kentucky           | SERC                     | RUS-7                    |
| CMS Electric Coop Inc.....          | Kansas             | SPP                      | RUS-7                    |
| CO-MO Electric Coop Inc.....        | Missouri           | MAIN                     | RUS-7                    |
| D S & O Rural E C A Inc.....        | Kansas             | SPP                      | RUS-7                    |
| Dairyland Electric Coop Inc.....    | Minnesota          | MAPP                     | RUS-7                    |
| Dairyland Power Coop.....           | Wisconsin          | MAPP                     | RUS-12                   |
| Dakota Energy Coop Inc.....         | South Dakota       | MAPP                     | RUS-7                    |
| Darke Rural Electric Coop Inc.....  | Ohio               | ECAR                     | RUS-7                    |
| Davidson Electric Member Corp.....  | North Carolina     | SERC                     | RUS-7                    |
| Daviess Martin County R E M C.....  | Indiana            | ECAR                     | RUS-7                    |
| Decatur County Rural E M C.....     | Indiana            | ECAR                     | RUS-7                    |
| Deep East Texas Elec Coop Inc.....  | Texas              | ERCOT                    | RUS-7                    |
| Delaware County Elec Coop Inc.....  | New York           | NPCC                     | RUS-7                    |
| Delaware Electric Coop Inc.....     | Delaware           | MAAC                     | RUS-7                    |
| Delta Montrose Electric Assn.....   | Colorado           | WSCC                     | RUS-7                    |
| Dewitt Electric Coop Inc.....       | Texas              | ERCOT                    | RUS-7                    |
| Dixie Electric Coop.....            | Alabama            | SERC                     | RUS-7                    |
| Dixie Electric Membership Corp..... | Louisiana          | SPP                      | RUS-7                    |
| Dixie Electric Power Assn.....      | Mississippi        | SERC                     | RUS-7                    |
| Doniphan Elec Coop Assn Inc.....    | Kansas             | SPP                      | RUS-7                    |
| Douglas Electric Coop Inc.....      | Oregon             | WSCC                     | RUS-7                    |
| Douglas Electric Coop Inc.....      | South Dakota       | MAPP                     | RUS-7                    |
| Dubois Rural Electric Coop Inc..... | Indiana            | ECAR                     | RUS-7                    |
| Duck River Elec Member Corp.....    | Tennessee          | SERC                     | RUS-7                    |
| Duncan Valley Elec Coop Inc.....    | Arizona            | WSCC                     | RUS-7                    |
| Dunn County Electric Coop.....      | Wisconsin          | MAPP                     | RUS-7                    |
| East Central Electric Assn.....     | Minnesota          | MAPP                     | RUS-7                    |
| East Central Okla El Coop Inc.....  | Oklahoma           | SPP                      | RUS-7                    |
| East Kentucky Power Coop Inc.....   | Kentucky           | ECAR                     | RUS-12                   |
| East Mississippi Elec Pwr Assn..... | Mississippi        | SERC                     | RUS-7                    |
| East River Elec Power Coop Inc..... | South Dakota       | MAPP                     | RUS-12                   |
| East-Central Iowa Rrl El Coop.....  | Iowa               | MAPP                     | RUS-7                    |
| Eastern Illini Electric Coop.....   | Illinois           | MAIN                     | RUS-7                    |
| Eastern Iowa Light&Power Coop.....  | Iowa               | MAPP                     | RUS-7                    |
| Eastern Maine Electric Coop.....    | Maine              | NPCC                     | RUS-7                    |
| Edgecombe-Martin County E M C.....  | North Carolina     | SERC                     | RUS-7                    |
| Edisto Electric Coop Inc.....       | South Carolina     | SERC                     | RUS-7                    |
| Egyptian Electric Coop Assn.....    | Illinois           | MAIN                     | RUS-7                    |
| Empire Electric Assn Inc.....       | Colorado           | WSCC                     | RUS-7                    |
| Erath County Elec Coop Assn.....    | Texas              | ERCOT                    | RUS-7                    |
| Escambia River Elec Coop Inc.....   | Florida            | SERC                     | RUS-7                    |
| Excelsior Electric Member Corp..... | Georgia            | SERC                     | RUS-7                    |
| Fairfield Electric Coop Inc.....    | South Carolina     | SERC                     | RUS-7                    |
| Fannin County Electric Coop.....    | Texas              | ERCOT                    | RUS-7                    |
| Farmers Electric Coop Corp.....     | Arkansas           | SPP                      | RUS-7                    |
| Farmers Electric Coop Inc.....      | Iowa               | MAPP                     | RUS-7                    |
| Farmers Mutual Electric Co.....     | Illinois           | MAIN                     | RUS-7                    |
| Farmers Rural Elec Coop Corp.....   | Kentucky           | ECAR                     | RUS-7                    |
| Farmers ' Electric Coop Inc.....    | Missouri           | SPP                      | RUS-7                    |
| Farmers ' Electric Coop Inc.....    | New Mexico         | WSCC                     | RUS-7                    |
| Federated Rural Electric Assn.....  | Minnesota          | MAPP                     | RUS-7                    |

See footnotes at end of table.



**Table B5. Cooperative Borrowers, 1996 (Continued)**

| Utility                              | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|--------------------------------------|--------------------|--------------------------|--------------------------|
| Fergus Electric Coop Inc .....       | Montana            | WSCC                     | RUS-7                    |
| Firelands Electric Coop Inc .....    | Ohio               | ECAR                     | RUS-7                    |
| First Electric Coop Corp .....       | Arkansas           | SPP                      | RUS-7                    |
| Fleming-Mason Rural E C C .....      | Kentucky           | ECAR                     | RUS-7                    |
| Flint Electric Membership Corp ..... | Georgia            | SERC                     | RUS-7                    |
| Flint Hills Rural E C A Inc .....    | Kansas             | SPP                      | RUS-7                    |
| Forked Deer Electric Coop Inc .....  | Tennessee          | SERC                     | RUS-7                    |
| Fort Loudoun Electric Coop .....     | Tennessee          | SERC                     | RUS-7                    |
| Four County Elec Member Corp .....   | North Carolina     | SERC                     | RUS-7                    |
| Fox Creek Rural Elec Coop Corp ..... | Kentucky           | ECAR                     | RUS-7                    |
| Fox Islands Electric Coop Inc .....  | Maine              | NPCC                     | RUS-7                    |
| Franklin Electric Coop .....         | Alabama            | SERC                     | RUS-7                    |
| Franklin Rural Electric Coop .....   | Iowa               | MAPP                     | RUS-7                    |
| Freeborn-Mower Electric Coop .....   | Minnesota          | MAPP                     | RUS-7                    |
| French Broad Elec Member Corp .....  | North Carolina     | SERC                     | RUS-7                    |
| Frontier Power Co .....              | Ohio               | ECAR                     | RUS-7                    |
| Fruit Belt Electric Coop .....       | Michigan           | ECAR                     | RUS-7                    |
| Fulton County Rural E M C .....      | Indiana            | ECAR                     | RUS-7                    |
| FEM Electric Assn Inc .....          | South Dakota       | MAPP                     | RUS-7                    |
| Garkane Power Assn Inc .....         | Utah               | WSCC                     | RUS-7                    |
| Garland Light & Power Co .....       | Wyoming            | WSCC                     | RUS-7                    |
| Gascosage Electric Coop .....        | Missouri           | MAIN                     | RUS-7                    |
| Gate City Electric Coop Inc .....    | Texas              | ERCOT                    | RUS-7                    |
| Gibson Electric Members Corp .....   | Tennessee          | SERC                     | RUS-7                    |
| Glades Electric Coop Inc .....       | Florida            | SERC                     | RUS-7                    |
| Glidden Rural Electric Coop .....    | Iowa               | MAPP                     | RUS-7                    |
| Golden Valley Elec Assn Inc .....    | Alaska             | ASCC                     | RUS-7                    |
| Goldenwest Electric Coop Inc .....   | Montana            | WSCC                     | RUS-7                    |
| Goodhue County Coop Elec Assn .....  | Minnesota          | MAPP                     | RUS-7                    |
| Grady County Elec Member Corp .....  | Georgia            | SERC                     | RUS-7                    |
| Grand Electric Coop Inc .....        | South Dakota       | MAPP                     | RUS-7                    |
| Grand Valley Rrl Pwr Line Inc .....  | Colorado           | WSCC                     | RUS-7                    |
| Grant-Lafayette Electric Coop .....  | Wisconsin          | MAPP                     | RUS-7                    |
| Grayson Rural Elec Coop Corp .....   | Kentucky           | ECAR                     | RUS-7                    |
| Grayson-Collin Elec Coop Inc .....   | Texas              | ERCOT                    | RUS-7                    |
| Green River Electric Corp .....      | Kentucky           | ECAR                     | RUS-7                    |
| Greenbelt Electric Coop Inc .....    | Texas              | SPP                      | RUS-7                    |
| GreyStone Power Corp .....           | Georgia            | SERC                     | RUS-7                    |
| Grundy County Rural Elec Coop .....  | Iowa               | MAPP                     | RUS-7                    |
| Grundy Electric Coop Inc .....       | Missouri           | SPP                      | RUS-7                    |
| Guernsey-Muskingum El Coop Inc ..... | Ohio               | ECAR                     | RUS-7                    |
| Gulf Coast Electric Coop Inc .....   | Florida            | SERC                     | RUS-7                    |
| Guthrie County Rural E C A .....     | Iowa               | MAPP                     | RUS-7                    |
| H-D Electric Coop Inc .....          | South Dakota       | MAPP                     | RUS-7                    |
| Habersham Electric Member Corp ..... | Georgia            | SERC                     | RUS-7                    |
| Halifax Electric Member Corp .....   | North Carolina     | SERC                     | RUS-7                    |
| Hamilton County Elec Coop Assn ..... | Texas              | ERCOT                    | RUS-7                    |
| Hancock County Rural Elec Coop ..... | Iowa               | MAPP                     | RUS-7                    |
| Hancock-Wood Electric Coop Inc ..... | Ohio               | ECAR                     | RUS-7                    |
| Harkers Island El Member Corp .....  | North Carolina     | SERC                     | RUS-7                    |
| Harmon Electric Assn Inc .....       | Oklahoma           | SPP                      | RUS-7                    |
| Harney Electric Coop Inc .....       | Oregon             | WSCC                     | RUS-7                    |
| Harrison County Rrl Elec Coop .....  | Iowa               | MAPP                     | RUS-7                    |
| Harrison County Rural E C C .....    | Kentucky           | ECAR                     | RUS-7                    |
| Harrison County Rural E M C .....    | Indiana            | ECAR                     | RUS-7                    |
| Harrison Rural Elec Assn Inc .....   | West Virginia      | ECAR                     | RUS-7                    |
| Hart Electric Member Corp .....      | Georgia            | SERC                     | RUS-7                    |
| Hawkeye Tri-County El Coop Inc ..... | Iowa               | MAPP                     | RUS-7                    |
| Haywood Electric Member Corp .....   | North Carolina     | SERC                     | RUS-7                    |
| Head of Lakes Electric Coop .....    | Wisconsin          | MAPP                     | RUS-7                    |
| Henderson-Union Elec Coop Corp ..... | Kentucky           | ECAR                     | RUS-7                    |
| Hickman-Fulton Counties RECC .....   | Kentucky           | ECAR                     | RUS-7                    |
| Highline Electric Assn .....         | Colorado           | WSCC                     | RUS-7                    |
| Hill County Electric Coop Inc .....  | Montana            | WSCC                     | RUS-7                    |
| Holmes-Wayne Electric Coop Inc ..... | Ohio               | ECAR                     | RUS-7                    |
| Holston Electric Coop Inc .....      | Tennessee          | SERC                     | RUS-7                    |
| Holy Cross Electric Assn Inc .....   | Colorado           | WSCC                     | RUS-7                    |
| Homer Electric Assn Inc .....        | Alaska             | ASCC                     | RUS-7                    |
| Hoosier Energy R E C Inc .....       | Indiana            | ECAR                     | RUS-12                   |
| Horry Electric Coop Inc .....        | South Carolina     | SERC                     | RUS-7                    |
| Hot Springs Rural El Assn Inc .....  | Wyoming            | WSCC                     | RUS-7                    |
| Houston County Elec Coop Inc .....   | Texas              | ERCOT                    | RUS-7                    |
| Howard Electric Coop .....           | Missouri           | SPP                      | RUS-7                    |
| Howell-Oregon Elec Coop Inc .....    | Missouri           | SPP                      | RUS-7                    |
| Humboldt County R E C .....          | Iowa               | MAPP                     | RUS-7                    |
| Ida County Rural Electric Coop ..... | Iowa               | MAPP                     | RUS-7                    |

See footnotes at end of table.

**Table B5. Cooperative Borrowers, 1996 (Continued)**

| Utility                              | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|--------------------------------------|--------------------|--------------------------|--------------------------|
| Idaho Cnty L&P Coop Assn Inc .....   | Idaho              | WSCC                     | RUS-7                    |
| Illinois Rural Electric Co .....     | Illinois           | MAIN                     | RUS-7                    |
| Indian Electric Coop Inc .....       | Oklahoma           | SPP                      | RUS-7                    |
| Inter County Rural E C C .....       | Kentucky           | ECAR                     | RUS-7                    |
| Intercounty Electric Assn Inc .....  | South Dakota       | MAPP                     | RUS-7                    |
| Intercounty Electric Coop Assn ..... | Missouri           | SPP                      | RUS-7                    |
| Iowa Lakes Electric Coop .....       | Iowa               | MAPP                     | RUS-7                    |
| Irwin Electric Membership Corp ..... | Georgia            | SERC                     | RUS-7                    |
| Itasca-Mantrap Co-op Elec Assn ..... | Minnesota          | MAPP                     | RUS-7                    |
| J-A-C Electric Coop Inc .....        | Texas              | ERCOT                    | RUS-7                    |
| Jackson County Rural E C C .....     | Kentucky           | ECAR                     | RUS-7                    |
| Jackson County Rural E M C .....     | Indiana            | ECAR                     | RUS-7                    |
| Jackson Electric Coop Inc .....      | Wisconsin          | MAPP                     | RUS-7                    |
| Jackson Electric Coop Inc .....      | Texas              | ERCOT                    | RUS-7                    |
| Jackson Electric Member Corp .....   | Georgia            | SERC                     | RUS-7                    |
| Jackson Purchase El Coop Corp .....  | Kentucky           | ECAR                     | RUS-7                    |
| James Valley Electric Coop Inc ..... | North Dakota       | MAPP                     | RUS-7                    |
| Jasper County Rural E M C .....      | Indiana            | ECAR                     | RUS-7                    |
| Jasper-Newton Elec Coop Inc .....    | Texas              | SPP                      | RUS-7                    |
| Jay County Rural E M C .....         | Indiana            | ECAR                     | RUS-7                    |
| Jefferson Davis Elec Coop Inc .....  | Louisiana          | SPP                      | RUS-7                    |
| Jefferson Electric Member Corp ..... | Georgia            | SERC                     | RUS-7                    |
| Jemez Mountains Elec Coop Inc .....  | New Mexico         | WSCC                     | RUS-7                    |
| Jewell-Mitchell Coop Elec Inc .....  | Kansas             | SPP                      | RUS-7                    |
| Jo-Carroll Electric Coop Inc .....   | Illinois           | MAPP                     | RUS-7                    |
| Joe Wheeler Elec Member Corp .....   | Alabama            | SERC                     | RUS-7                    |
| Johnson County Elec Coop Assn .....  | Texas              | ERCOT                    | RUS-7                    |
| Johnson County Rural E M C .....     | Indiana            | ECAR                     | RUS-7                    |
| Jump River Electric Coop Inc .....   | Wisconsin          | MAPP                     | RUS-7                    |
| K C Electric Assn .....              | Colorado           | WSCC                     | RUS-7                    |
| Kandiyohi Coop Elec Power Assn ..... | Minnesota          | MAPP                     | RUS-7                    |
| Kankakee Valley Rural E M C .....    | Indiana            | ECAR                     | RUS-7                    |
| Kansas Electric Power Coop Inc ..... | Kansas             | SPP                      | RUS-12                   |
| Karnes Electric Coop Inc .....       | Texas              | ERCOT                    | RUS-7                    |
| Kaw Valley Electric Coop Inc .....   | Kansas             | SPP                      | RUS-7                    |
| Kay Electric Coop .....              | Oklahoma           | SPP                      | RUS-7                    |
| Kimble Electric Coop Inc .....       | Texas              | ERCOT                    | RUS-7                    |
| Kingsbury Electric Coop Inc .....    | South Dakota       | MAPP                     | RUS-7                    |
| Kit Carson Electric Coop Inc .....   | New Mexico         | WSCC                     | RUS-7                    |
| Kiwash Electric Coop Inc .....       | Oklahoma           | SPP                      | RUS-7                    |
| Knox County Rural E M C .....        | Indiana            | ECAR                     | RUS-7                    |
| Kodiak Electric Assn Inc .....       | Alaska             | ASCC                     | RUS-7                    |
| Kootenai Electric Coop Inc .....     | Idaho              | WSCC                     | RUS-7                    |
| KAMO Electric Coop Inc .....         | Oklahoma           | SPP                      | RUS-12                   |
| KEM Electric Coop Inc .....          | North Dakota       | MAPP                     | RUS-7                    |
| L & O Power Coop .....               | Iowa               | MAPP                     | RUS-12                   |
| La Plata Electric Assn Inc .....     | Colorado           | WSCC                     | RUS-7                    |
| Laclede Electric Coop Inc .....      | Missouri           | SPP                      | RUS-7                    |
| Lagrange County Rural E M C .....    | Indiana            | ECAR                     | RUS-7                    |
| Lake Region Coop Elec Assn .....     | Minnesota          | MAPP                     | RUS-7                    |
| Lake Region Electric Assn Inc .....  | South Dakota       | MAPP                     | RUS-7                    |
| Lake Region Electric Coop Inc .....  | Oklahoma           | SPP                      | RUS-7                    |
| Lamar County Elec Coop Assn .....    | Texas              | ERCOT                    | RUS-7                    |
| Lamar Electric Membership Corp ..... | Georgia            | SERC                     | RUS-7                    |
| Lamb County Electric Coop Inc .....  | Texas              | SPP                      | RUS-7                    |
| Lane Electric Coop Inc .....         | Oregon             | WSCC                     | RUS-7                    |
| Lane-Scott Electric Coop Inc .....   | Kansas             | SPP                      | RUS-7                    |
| Laurens Electric Coop Inc .....      | South Carolina     | SERC                     | RUS-7                    |
| LaCreek Electric Assn Inc .....      | South Dakota       | MAPP                     | RUS-7                    |
| Lea County Electric Coop Inc .....   | New Mexico         | SPP                      | RUS-7                    |
| Leavenworth-Jefferson E C Inc .....  | Kansas             | SPP                      | RUS-7                    |
| Lewis County Rural E C A .....       | Missouri           | MAIN                     | RUS-7                    |
| Licking Valley Rural E C C .....     | Kentucky           | ECAR                     | RUS-7                    |
| Lighthouse Electric Coop Inc .....   | Texas              | SPP                      | RUS-7                    |
| Lincoln Electric Coop Inc .....      | Montana            | WSCC                     | RUS-7                    |
| Lincoln-Union Electric Co .....      | South Dakota       | MAPP                     | RUS-7                    |
| Linn County Rural E C A .....        | Iowa               | MAPP                     | RUS-7                    |
| Little Ocmulgee El Member Corp ..... | Georgia            | SERC                     | RUS-7                    |
| Little River Electric Coop Inc ..... | South Carolina     | SERC                     | RUS-7                    |
| Logan Cnty Coop P&L Assn Inc .....   | Ohio               | ECAR                     | RUS-7                    |
| Lorain-Medina R E C Inc .....        | Ohio               | ECAR                     | RUS-7                    |
| Lost River Electric Coop Inc .....   | Idaho              | WSCC                     | RUS-7                    |
| Lower Yellowstone R E A Inc .....    | Montana            | MAPP                     | RUS-7                    |
| Lumbee River Elec Member Corp .....  | North Carolina     | SERC                     | RUS-7                    |
| Lynches River Elec Coop Inc .....    | South Carolina     | SERC                     | RUS-7                    |
| Lyntegar Electric Coop Inc .....     | Texas              | SPP                      | RUS-7                    |

See footnotes at end of table.

**Table B5. Cooperative Borrowers, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Lyon Rural Electric Coop.....       | Iowa               | MAPP                     | RUS-7                    |
| Lyon-Coffey Electric Coop Inc.....  | Kansas             | SPP                      | RUS-7                    |
| Lyon-Lincoln Electric Coop Inc..... | Minnesota          | MAPP                     | RUS-7                    |
| M & A Electric Power Coop.....      | Missouri           | SPP                      | RUS-12                   |
| M J M Electric Coop Inc.....        | Illinois           | MAIN                     | RUS-7                    |
| Macon Electric Coop.....            | Missouri           | SPP                      | RUS-7                    |
| Magic Valley Electric Coop Inc..... | Texas              | ERCOT                    | RUS-7                    |
| Magnolia Electric Power Assn.....   | Mississippi        | SPP                      | RUS-7                    |
| Maquoketa Valley Rrl Elec Coop..... | Iowa               | MAPP                     | RUS-7                    |
| Marias River Electric Coop Inc..... | Montana            | WSCC                     | RUS-7                    |
| Marion Rural Electric Coop Inc..... | Ohio               | ECAR                     | RUS-7                    |
| Marlboro Electric Coop Inc.....     | South Carolina     | SERC                     | RUS-7                    |
| Marshall County Rrl Elec Coop.....  | Iowa               | MAPP                     | RUS-7                    |
| Marshall County Rural E M C.....    | Indiana            | ECAR                     | RUS-7                    |
| McCone Electric Coop Inc.....       | Montana            | WSCC                     | RUS-7                    |
| McCook Electric Coop Inc.....       | South Dakota       | MAPP                     | RUS-7                    |
| McCulloch Electric Coop Inc.....    | Texas              | ERCOT                    | RUS-7                    |
| McDonough Power Coop.....           | Illinois           | MAIN                     | RUS-7                    |
| McKenzie Electric Coop Inc.....     | North Dakota       | MAPP                     | RUS-7                    |
| McLean Electric Coop Inc.....       | North Dakota       | MAPP                     | RUS-7                    |
| McLennan County Elec Coop Inc.....  | Texas              | ERCOT                    | RUS-7                    |
| McLeod Coop Power Assn.....         | Minnesota          | MAPP                     | RUS-7                    |
| Meade County Rural E C C.....       | Kentucky           | ECAR                     | RUS-7                    |
| Mecklenburg Electric Coop Inc.....  | Virginia           | SERC                     | RUS-7                    |
| Medina Electric Coop Inc.....       | Texas              | ERCOT                    | RUS-7                    |
| Meeker Coop Light & Power Assn..... | Minnesota          | MAPP                     | RUS-7                    |
| Menard Electric Coop.....           | Illinois           | MAIN                     | RUS-7                    |
| Meriwether Lewis Electric Coop..... | Tennessee          | SERC                     | RUS-7                    |
| Mid-Carolina Electric Coop Inc..... | South Carolina     | SERC                     | RUS-7                    |
| Mid-Yellowstone Elec Coop Inc.....  | Montana            | WSCC                     | RUS-7                    |
| Middle Georgia El Member Corp.....  | Georgia            | SERC                     | RUS-7                    |
| Middle Tennessee E M C.....         | Tennessee          | SERC                     | RUS-7                    |
| Midland Power Coop.....             | Iowa               | MAPP                     | RUS-7                    |
| Midstate Electric Coop Inc.....     | Oregon             | WSCC                     | RUS-7                    |
| Midwest Electric Coop Inc.....      | Texas              | ERCOT                    | RUS-7                    |
| Midwest Electric Inc.....           | Ohio               | ECAR                     | RUS-7                    |
| Midwest Electric Member Corp.....   | Nebraska           | MAPP                     | RUS-7                    |
| Mille Lacs Electric Coop.....       | Minnesota          | MAPP                     | RUS-7                    |
| Minnesota Valley Coop L&P Assn..... | Minnesota          | MAPP                     | RUS-7                    |
| Minnesota Valley Electric Coop..... | Minnesota          | MAPP                     | RUS-7                    |
| Minnkota Power Coop Inc.....        | North Dakota       | MAPP                     | RUS-12                   |
| Mississippi Cnty Elec Coop Inc..... | Arkansas           | SPP                      | RUS-7                    |
| Missoula Electric Coop Inc.....     | Montana            | WSCC                     | RUS-7                    |
| Missouri Rural Electric Coop.....   | Missouri           | MAIN                     | RUS-7                    |
| Mohave Electric Coop Inc.....       | Arizona            | WSCC                     | RUS-7                    |
| Monona County Rural Elec Coop.....  | Iowa               | MAPP                     | RUS-7                    |
| Monroe County Elec Coop Inc.....    | Illinois           | MAIN                     | RUS-7                    |
| Monroe County Elec Power Assn.....  | Mississippi        | SERC                     | RUS-7                    |
| Mor-Gran-Sou Electric Coop Inc..... | North Dakota       | MAPP                     | RUS-7                    |
| Mora-San Miguel Elec Coop Inc.....  | New Mexico         | WSCC                     | RUS-7                    |
| Moreau-Grand Electric Coop Inc..... | South Dakota       | MAPP                     | RUS-7                    |
| Morgan County Rural Elec Assn.....  | Colorado           | WSCC                     | RUS-7                    |
| Morrow Electric Coop Inc.....       | Ohio               | ECAR                     | RUS-7                    |
| Mountain Electric Coop Inc.....     | Tennessee          | SERC                     | RUS-7                    |
| Mountain Parks Electric Inc.....    | Colorado           | WSCC                     | RUS-7                    |
| Mountain View Elec Assn Inc.....    | Colorado           | WSCC                     | RUS-7                    |
| Mountrail-Williams Elec Coop.....   | North Dakota       | MAPP                     | RUS-7                    |
| Mt Wheeler Power Inc.....           | Nevada             | WSCC                     | RUS-7                    |
| N C K Electric Coop Inc.....        | Kansas             | SPP                      | RUS-7                    |
| N W Electric Power Coop Inc.....    | Missouri           | SPP                      | RUS-12                   |
| National Chemical Corp.....         | Alabama            | SERC                     | RUS-7                    |
| Navarro County Elec Coop Inc.....   | Texas              | ERCOT                    | RUS-7                    |
| Navapache Electric Coop Inc.....    | Arizona            | WSCC                     | RUS-7                    |
| Nebraska Electric G&T Coop Inc..... | Nebraska           | MAPP                     | RUS-12                   |
| Nemaha-Marshall E C A Inc.....      | Kansas             | SPP                      | RUS-7                    |
| Nespelem Valley Elec Coop Inc.....  | Washington         | WSCC                     | RUS-7                    |
| New Era Electric Coop Inc.....      | Texas              | ERCOT                    | RUS-7                    |
| New Hampshire Elec Coop Inc.....    | New Hampshire      | NPCC                     | RUS-7                    |
| New-Mac Electric Coop Inc.....      | Missouri           | MAIN                     | RUS-7                    |
| Newberry Electric Coop Inc.....     | South Carolina     | SERC                     | RUS-7                    |
| Newton County Rural E M C.....      | Indiana            | ECAR                     | RUS-7                    |
| Ninnesah Rural E C A Inc.....       | Kansas             | SPP                      | RUS-7                    |
| Niobrara Electric Assn Inc.....     | Wyoming            | WSCC                     | RUS-7                    |
| Nobles Coop Electric.....           | Minnesota          | MAPP                     | RUS-7                    |
| Nodak Electric Coop Inc.....        | North Dakota       | MAPP                     | RUS-7                    |
| Nodaway Worth Elec Coop Inc.....    | Missouri           | SPP                      | RUS-7                    |

See footnotes at end of table.

**Table B5. Cooperative Borrowers, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Nolin Rural Electric Coop Corp..... | Kentucky           | ECAR                     | RUS-7                    |
| North Alabama Electric Coop.....    | Alabama            | SERC                     | RUS-7                    |
| North Arkansas Elec Coop Inc.....   | Arkansas           | SPP                      | RUS-7                    |
| North Carolina El Member Corp.....  | North Carolina     | SERC                     | RUS-12                   |
| North Central Elec Coop Inc.....    | Ohio               | ECAR                     | RUS-7                    |
| North Central Elec Coop Inc.....    | North Dakota       | MAPP                     | RUS-7                    |
| North Central MO Elec Coop Inc..... | Missouri           | SPP                      | RUS-7                    |
| North East Mississippi E P A.....   | Mississippi        | SERC                     | RUS-7                    |
| North Georgia Elec Member Corp..... | Georgia            | SERC                     | RUS-7                    |
| North Itasca Electric Coop Inc..... | Minnesota          | MAPP                     | RUS-7                    |
| North Plains Electric Coop Inc..... | Texas              | SPP                      | RUS-7                    |
| North Star Electric Coop Inc.....   | Minnesota          | MAPP                     | RUS-7                    |
| North Western Elec Coop Inc.....    | Ohio               | ECAR                     | RUS-7                    |
| Northcentral Mississippi E P A..... | Mississippi        | SERC                     | RUS-7                    |
| Northeast Louisiana Power Coop..... | Louisiana          | SPP                      | RUS-7                    |
| Northeast Missouri El Pwr Coop..... | Missouri           | MAIN                     | RUS-12                   |
| Northeast Oklahoma El Coop Inc..... | Oklahoma           | SPP                      | RUS-7                    |
| Northeast Texas Elec Coop Inc.....  | Texas              | SPP                      | RUS-12                   |
| Northeastern Rural E M C.....       | Indiana            | ECAR                     | RUS-7                    |
| Northern Electric Coop Assn.....    | Minnesota          | MAPP                     | RUS-7                    |
| Northern Electric Coop Inc.....     | Montana            | WSCC                     | RUS-7                    |
| Northern Electric Coop Inc.....     | South Dakota       | MAPP                     | RUS-7                    |
| Northern Lights Inc.....            | Idaho              | WSCC                     | RUS-7                    |
| Northern Neck Elec Coop Inc.....    | Virginia           | SERC                     | RUS-7                    |
| Northern Rio Arriba E C Inc.....    | New Mexico         | WSCC                     | RUS-7                    |
| Northern Virginia Elec Coop.....    | Virginia           | SERC                     | RUS-7                    |
| Northfork Electric Coop Inc.....    | Oklahoma           | SPP                      | RUS-7                    |
| Northwest Iowa Power Coop.....      | Iowa               | MAPP                     | RUS-12                   |
| Northwest Kansas E C A Inc.....     | Kansas             | SPP                      | RUS-7                    |
| Northwest Missouri El Coop Inc..... | Missouri           | MAIN                     | RUS-7                    |
| Northwestern Electric Coop Inc..... | Oklahoma           | SPP                      | RUS-7                    |
| Northwestern Rural E C A Inc.....   | Pennsylvania       | MAAC                     | RUS-7                    |
| Norton-Decatur Coop El Co Inc.....  | Kansas             | SPP                      | RUS-7                    |
| Nueces Electric Coop Inc.....       | Texas              | ERCOT                    | RUS-7                    |
| Nyman Electric Coop Inc.....        | Iowa               | MAPP                     | RUS-7                    |
| O & A Electric Coop.....            | Michigan           | ECAR                     | RUS-7                    |
| Oahe Electric Coop Inc.....         | South Dakota       | MAPP                     | RUS-7                    |
| Oakdale Electric Coop.....          | Wisconsin          | MAPP                     | RUS-7                    |
| Ocmulgee Electric Member Corp.....  | Georgia            | SERC                     | RUS-7                    |
| Oconee Electric Member Corp.....    | Georgia            | SERC                     | RUS-7                    |
| Oconto Electric Coop.....           | Wisconsin          | MAIN                     | RUS-7                    |
| Oglethorpe Power Corp.....          | Georgia            | SERC                     | RUS-12                   |
| Okanogan County Elec Coop Inc.....  | Washington         | WSCC                     | RUS-7                    |
| Okefenoke Rural El Member Corp..... | Georgia            | SERC                     | RUS-7                    |
| Oliver-Mercer Elec Coop Inc.....    | North Dakota       | MAPP                     | RUS-7                    |
| Oneida-Madison Elec Coop Inc.....   | New York           | NPCC                     | RUS-7                    |
| Ontonagon County R E A.....         | Michigan           | MAIN                     | RUS-7                    |
| Orange County Rural E M C.....      | Indiana            | ECAR                     | RUS-7                    |
| Orcas Power & Light Co.....         | Washington         | WSCC                     | RUS-7                    |
| Osage Valley Elec Coop Assn.....    | Missouri           | SPP                      | RUS-7                    |
| Osceola Electric Coop Inc.....      | Iowa               | MAPP                     | RUS-7                    |
| Otero County Electric Coop Inc..... | New Mexico         | WSCC                     | RUS-7                    |
| Otsego Electric Coop Inc.....       | New York           | NPCC                     | RUS-7                    |
| Ouachita Electric Coop Corp.....    | Arkansas           | SPP                      | RUS-7                    |
| Owen Electric Coop Inc.....         | Kentucky           | ECAR                     | RUS-7                    |
| Ozark Border Electric Coop.....     | Missouri           | SPP                      | RUS-7                    |
| Ozark Electric Coop Inc.....        | Missouri           | SPP                      | RUS-7                    |
| Ozarks Electric Coop Corp.....      | Arkansas           | SPP                      | RUS-7                    |
| P K M Electric Coop Inc.....        | Minnesota          | MAPP                     | RUS-7                    |
| P R & W Electric Coop Assn Inc..... | Kansas             | SPP                      | RUS-7                    |
| Palmetto Electric Coop Inc.....     | South Carolina     | SERC                     | RUS-7                    |
| Panhandle Rural El Member Assn..... | Nebraska           | MAPP                     | RUS-7                    |
| Panola-Harrison Elec Coop Inc.....  | Texas              | SPP                      | RUS-7                    |
| Park Electric Coop Inc.....         | Montana            | WSCC                     | RUS-7                    |
| Parke County Rural E M C.....       | Indiana            | ECAR                     | RUS-7                    |
| Pataula Electric Member Corp.....   | Georgia            | SERC                     | RUS-7                    |
| Pea River Electric Coop.....        | Alabama            | SERC                     | RUS-7                    |
| Peace River Electric Coop Inc.....  | Florida            | SERC                     | RUS-7                    |
| Pee Dee Electric Coop Inc.....      | South Carolina     | SERC                     | RUS-7                    |
| Pee Dee Electric Member Corp.....   | North Carolina     | SERC                     | RUS-7                    |
| Pella Coop Elec Assn.....           | Iowa               | MAPP                     | RUS-7                    |
| Pemiscot-Dunklin Elec Coop Inc..... | Missouri           | SPP                      | RUS-7                    |
| Pennyrite Rural Elec Coop Corp..... | Kentucky           | SERC                     | RUS-7                    |
| People 's Coop Power Assn.....      | Minnesota          | MAPP                     | RUS-7                    |
| Petit Jean Electric Coop Corp.....  | Arkansas           | SPP                      | RUS-7                    |
| Pickwick Electric Coop.....         | Tennessee          | SERC                     | RUS-7                    |

See footnotes at end of table.

**Table B5. Cooperative Borrowers, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Piedmont Electric Member Corp.....  | North Carolina     | SERC                     | RUS-7                    |
| Pioneer Electric Coop Inc.....      | Kansas             | SPP                      | RUS-7                    |
| Pioneer Electric Coop Inc.....      | Alabama            | SERC                     | RUS-7                    |
| Pioneer Rural Elec Coop Inc.....    | Ohio               | ECAR                     | RUS-7                    |
| Plains Elec Gen&Trans Coop Inc..... | New Mexico         | WSCC                     | RUS-12                   |
| Planters Electric Member Corp.....  | Georgia            | SERC                     | RUS-7                    |
| Plateau Electric Coop.....          | Tennessee          | SERC                     | RUS-7                    |
| Platte-Clay Electric Coop Inc.....  | Missouri           | SPP                      | RUS-7                    |
| Plumas-Sierra Rural Elec Coop.....  | California         | WSCC                     | RUS-7                    |
| Plymouth Electric Coop Assn.....    | Iowa               | MAPP                     | RUS-7                    |
| Pointe Coupee Elec Member Corp..... | Louisiana          | SPP                      | RUS-7                    |
| Poudre Valley R E A Inc.....        | Colorado           | WSCC                     | RUS-7                    |
| Powell Valley Electric Coop.....    | Tennessee          | SERC                     | RUS-7                    |
| Price Electric Coop Inc.....        | Wisconsin          | MAPP                     | RUS-7                    |
| Prince George Electric Coop.....    | Virginia           | SERC                     | RUS-7                    |
| R S R Electric Coop Inc.....        | North Dakota       | MAPP                     | RUS-7                    |
| Radiant Electric Coop Inc.....      | Kansas             | SPP                      | RUS-7                    |
| Raft River Rural Elec Coop Inc..... | Idaho              | WSCC                     | RUS-7                    |
| Ralls County Electric Coop.....     | Missouri           | SPP                      | RUS-7                    |
| Randolph Electric Member Corp.....  | North Carolina     | SERC                     | RUS-7                    |
| Rappahannock Electric Coop.....     | Virginia           | SERC                     | RUS-7                    |
| Ravalli County Elec Coop Inc.....   | Montana            | WSCC                     | RUS-7                    |
| Rayle Electric Membership Corp..... | Georgia            | SERC                     | RUS-7                    |
| Red Lake Electric Coop Inc.....     | Minnesota          | MAPP                     | RUS-7                    |
| Red River Valley Coop Pwr Assn..... | Minnesota          | MAPP                     | RUS-7                    |
| Red River Valley Rrl Elec Assn..... | Oklahoma           | SPP                      | RUS-7                    |
| Redwood Electric Coop.....          | Minnesota          | MAPP                     | RUS-7                    |
| Renville-Sibley Coop Pwr Assn.....  | Minnesota          | MAPP                     | RUS-7                    |
| Rich Mountain Elec Coop Inc.....    | Arkansas           | SPP                      | RUS-7                    |
| Richland Electric Coop.....         | Wisconsin          | MAPP                     | RUS-7                    |
| Rideta Electric Coop Inc.....       | Iowa               | MAPP                     | RUS-7                    |
| Rio Grande Electric Coop Inc.....   | Texas              | ERCOT                    | RUS-7                    |
| Rita Blanca Electric Coop Inc.....  | Texas              | SPP                      | RUS-7                    |
| Riverton Valley Elec Assn Inc.....  | Wyoming            | WSCC                     | RUS-7                    |
| Roanoke Electric Member Corp.....   | North Carolina     | SERC                     | RUS-7                    |
| Rock County Electric Coop Assn..... | Wisconsin          | MAPP                     | RUS-7                    |
| Roosevelt County Elec Coop Inc..... | New Mexico         | SPP                      | RUS-7                    |
| Roseau Electric Coop Inc.....       | Minnesota          | MAPP                     | RUS-7                    |
| Rosebud Electric Coop Inc.....      | South Dakota       | MAPP                     | RUS-7                    |
| Runestone Electric Assn.....        | Minnesota          | MAPP                     | RUS-7                    |
| Rural Electric Co.....              | Wyoming            | WSCC                     | RUS-7                    |
| Rural Electric Conven Coop.....     | Illinois           | MAIN                     | RUS-7                    |
| Rural Electric Coop Inc.....        | Oklahoma           | SPP                      | RUS-7                    |
| Rush County Rural E M C.....        | Indiana            | ECAR                     | RUS-7                    |
| Rusk County Electric Coop Inc.....  | Texas              | SPP                      | RUS-7                    |
| Rutherford Elec Member Corp.....    | North Carolina     | SERC                     | RUS-7                    |
| S E Iowa Coop Electric Assn.....    | Iowa               | MAPP                     | RUS-7                    |
| Sac County Rural Electric Coop..... | Iowa               | MAPP                     | RUS-7                    |
| Sac-Osage Electric Coop Inc.....    | Missouri           | SPP                      | RUS-7                    |
| Salmon River Electric Coop Inc..... | Idaho              | WSCC                     | RUS-7                    |
| Salt River Electric Coop Corp.....  | Kentucky           | ECAR                     | RUS-7                    |
| Saluda River Electric Coop Inc..... | South Carolina     | SERC                     | RUS-12                   |
| Sam Rayburn G&T Elec Coop Inc.....  | Texas              | SPP                      | RUS-12                   |
| San Isabel Electric Assn Inc.....   | Colorado           | WSCC                     | RUS-7                    |
| San Luis Valley R E C Inc.....      | Colorado           | WSCC                     | RUS-7                    |
| San Miguel Power Assn Inc.....      | Colorado           | WSCC                     | RUS-7                    |
| San Patricio Electric Coop Inc..... | Texas              | ERCOT                    | RUS-7                    |
| Sand Mountain Electric Coop.....    | Alabama            | SERC                     | RUS-7                    |
| Sangre De Cristo Elec Assn Inc..... | Colorado           | WSCC                     | RUS-7                    |
| Santee Electric Coop Inc.....       | South Carolina     | SERC                     | RUS-7                    |
| Satilla Rural Elec Member Corp..... | Georgia            | SERC                     | RUS-7                    |
| Sawnee Electric Members Corp.....   | Georgia            | SERC                     | RUS-7                    |
| Sedgwick Cnty El Coop Assn Inc..... | Kansas             | SPP                      | RUS-7                    |
| Sekan Electric Coop Assn Inc.....   | Kansas             | SPP                      | RUS-7                    |
| Seminole Electric Coop Inc.....     | Florida            | SERC                     | RUS-12                   |
| Sequachee Valley Electric Coop..... | Tennessee          | SERC                     | RUS-7                    |
| Shelby County Rural E M C.....      | Indiana            | ECAR                     | RUS-7                    |
| Shelby Rural Elec Coop Corp.....    | Kentucky           | ECAR                     | RUS-7                    |
| Shenandoah Valley Elec Coop.....    | Virginia           | SERC                     | RUS-7                    |
| Sheridan Electric Coop Inc.....     | Montana            | MAPP                     | RUS-7                    |
| Sheridan-Johnson Rrl Elec Assn..... | Wyoming            | WSCC                     | RUS-7                    |
| Sheyenne Valley Elec Coop Inc.....  | North Dakota       | MAPP                     | RUS-7                    |
| Sho-Me Power Electric Coop.....     | Missouri           | SPP                      | RUS-12                   |
| Sierra Electric Coop Inc.....       | New Mexico         | WSCC                     | RUS-7                    |
| Singing River Elec Power Assn.....  | Mississippi        | SERC                     | RUS-7                    |
| Sioux Valley Empire E A Inc.....    | South Dakota       | MAPP                     | RUS-7                    |

See footnotes at end of table.

**Table B5. Cooperative Borrowers, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Slash Pine Elec Member Corp.....    | Georgia            | SERC                     | RUS-7                    |
| Slope Electric Coop Inc.....        | North Dakota       | MAPP                     | RUS-7                    |
| Smoky Hill Elec Coop Assn Inc.....  | Kansas             | SPP                      | RUS-7                    |
| Socorro Electric Coop Inc.....      | New Mexico         | WSCC                     | RUS-7                    |
| Somerset Rural Elec Coop Inc.....   | Pennsylvania       | MAAC                     | RUS-7                    |
| South Alabama Elec Coop Inc.....    | Alabama            | SERC                     | RUS-7                    |
| South Central Ark El Coop Inc.....  | Arkansas           | SPP                      | RUS-7                    |
| South Central Electric Assn.....    | Minnesota          | MAPP                     | RUS-7                    |
| South Central Indiana REMC.....     | Indiana            | ECAR                     | RUS-7                    |
| South Central Power Co.....         | Ohio               | ECAR                     | RUS-7                    |
| South Crawford Rural Elec Corp..... | Iowa               | MAPP                     | RUS-7                    |
| South Kentucky Rural E C C.....     | Kentucky           | ECAR                     | RUS-7                    |
| South Louisiana Elec Coop Assn..... | Louisiana          | SPP                      | RUS-7                    |
| South Mississippi El Pwr Assn.....  | Mississippi        | SERC                     | RUS-12                   |
| South Plains Electric Coop Inc..... | Texas              | SPP                      | RUS-7                    |
| South River Elec Member Corp.....   | North Carolina     | SERC                     | RUS-7                    |
| South Texas Electric Coop Inc.....  | Texas              | ERCOT                    | RUS-12                   |
| Southeast Colorado Power Assn.....  | Colorado           | WSCC                     | RUS-7                    |
| Southeast Electric Coop Inc.....    | Montana            | WSCC                     | RUS-7                    |
| Southeastern Electric Coop Inc..... | Oklahoma           | SPP                      | RUS-7                    |
| Southeastern Indiana R E M C.....   | Indiana            | ECAR                     | RUS-7                    |
| Southeastern IL Elec Coop Inc.....  | Illinois           | MAIN                     | RUS-7                    |
| Southeastern Michigan REC Inc.....  | Michigan           | ECAR                     | RUS-7                    |
| Southern Illinois Elec Coop.....    | Illinois           | MAIN                     | RUS-7                    |
| Southern Illinois Power Coop.....   | Illinois           | MAIN                     | RUS-12                   |
| Southern Indiana R E C Inc.....     | Indiana            | ECAR                     | RUS-7                    |
| Southern Iowa Elec Coop Inc.....    | Iowa               | MAPP                     | RUS-7                    |
| Southern Maryland El Coop Inc.....  | Maryland           | MAAC                     | RUS-7                    |
| Southern Pine Elec Coop Inc.....    | Alabama            | SERC                     | RUS-7                    |
| Southern Pine Elec Power Assn.....  | Mississippi        | SERC                     | RUS-7                    |
| Southside Electric Coop Inc.....    | Virginia           | SERC                     | RUS-7                    |
| Southwest Arkansas E C C.....       | Arkansas           | SPP                      | RUS-7                    |
| Southwest Central R E C Corp.....   | Pennsylvania       | MAAC                     | RUS-7                    |
| Southwest Electric Coop Inc.....    | Missouri           | SPP                      | RUS-7                    |
| Southwest Louisiana E M C.....      | Louisiana          | SPP                      | RUS-7                    |
| Southwest Mississippi E P A.....    | Mississippi        | SPP                      | RUS-7                    |
| Southwest Rural Elec Assn Inc.....  | Oklahoma           | SPP                      | RUS-7                    |
| Southwest Tennessee E M C.....      | Tennessee          | SERC                     | RUS-7                    |
| Southwest Texas Elec Coop Inc.....  | Texas              | ERCOT                    | RUS-7                    |
| Southwestern Electric Coop Inc..... | Illinois           | MAIN                     | RUS-7                    |
| Southwestern Electric Coop Inc..... | New Mexico         | SPP                      | RUS-7                    |
| Spink Electric Coop Inc.....        | South Dakota       | MAPP                     | RUS-7                    |
| Spoon River Electric Coop Inc.....  | Illinois           | MAIN                     | RUS-7                    |
| Springer Electric Coop Inc.....     | New Mexico         | WSCC                     | RUS-7                    |
| Square Butte Electric Coop.....     | North Dakota       | MAPP                     | RUS-12                   |
| St Croix Electric Coop.....         | Wisconsin          | MAPP                     | RUS-7                    |
| Stearns Coop Electric Assn.....     | Minnesota          | MAPP                     | RUS-7                    |
| Steele-Waseca Coop Electric.....    | Minnesota          | MAPP                     | RUS-7                    |
| Steuben Rural Elec Coop Inc.....    | New York           | NPCC                     | RUS-7                    |
| Sullivan County R E C Inc.....      | Pennsylvania       | MAAC                     | RUS-7                    |
| Sullivan County Rural E M C.....    | Indiana            | ECAR                     | RUS-7                    |
| Sulphur Springs Valley E C Inc..... | Arizona            | WSCC                     | RUS-7                    |
| Summer-Cowley Elec Coop Inc.....    | Kansas             | SPP                      | RUS-7                    |
| Sumter Electric Coop Inc.....       | Florida            | SERC                     | RUS-7                    |
| Sumter Electric Member Corp.....    | Georgia            | SERC                     | RUS-7                    |
| Sun River Electric Coop Inc.....    | Montana            | WSCC                     | RUS-7                    |
| Sunflower Electric Power Corp.....  | Kansas             | SPP                      | RUS-12                   |
| Surprise Valley Electric Corp.....  | California         | WSCC                     | RUS-7                    |
| Surry-Yadkin Elec Member Corp.....  | North Carolina     | SERC                     | RUS-7                    |
| Sussex Rural Electric Coop Inc..... | New Jersey         | MAAC                     | RUS-7                    |
| Suwannee Valley Elec Coop Inc.....  | Florida            | SERC                     | RUS-7                    |
| Swans Island Electric Coop Inc..... | Maine              | NPCC                     | RUS-7                    |
| Swisher Electric Coop Inc.....      | Texas              | SPP                      | RUS-7                    |
| SE-MA-NO Electric Coop.....         | Missouri           | SPP                      | RUS-7                    |
| T I P Rural Electric Coop.....      | Iowa               | MAPP                     | RUS-7                    |
| Tallahatchie Valley E P A.....      | Mississippi        | SERC                     | RUS-7                    |
| Tallapoosa River Elec Coop Inc..... | Alabama            | SERC                     | RUS-7                    |
| Talquin Electric Coop Inc.....      | Florida            | SERC                     | RUS-7                    |
| Tanner Electric Coop.....           | Washington         | WSCC                     | RUS-7                    |
| Taylor County Rural E C C.....      | Kentucky           | ECAR                     | RUS-7                    |
| Taylor Electric Coop Inc.....       | Texas              | ERCOT                    | RUS-7                    |
| Teche Electric Coop Inc.....        | Louisiana          | SPP                      | RUS-7                    |
| Tennessee Valley Electric Coop..... | Tennessee          | SERC                     | RUS-7                    |
| Tex-La Electric Coop-Texas Inc..... | Texas              | ERCOT                    | RUS-12                   |
| Three Notch Elec Member Corp.....   | Georgia            | SERC                     | RUS-7                    |
| Three Rivers Electric Coop.....     | Missouri           | SPP                      | RUS-7                    |

See footnotes at end of table.

**Table B5. Cooperative Borrowers, 1996 (Continued)**

| Utility                              | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|--------------------------------------|--------------------|--------------------------|--------------------------|
| Thumb Electric Coop-Michigan .....   | Michigan           | ECAR                     | RUS-7                    |
| Tideland Electric Member Corp .....  | North Carolina     | SERC                     | RUS-7                    |
| Tipmont Rural Elec Member Corp.....  | Indiana            | ECAR                     | RUS-7                    |
| Tishomingo County E P A .....        | Mississippi        | SERC                     | RUS-7                    |
| Todd-Wadena Electric Coop.....       | Minnesota          | MAPP                     | RUS-7                    |
| Tombigbee Electric Coop Inc.....     | Alabama            | SERC                     | RUS-7                    |
| Tombigbee Electric Power Assn.....   | Mississippi        | SERC                     | RUS-7                    |
| Tongue River Electric Coop Inc.....  | Montana            | MAPP                     | RUS-7                    |
| Top O' Michigan Electric Co.....     | Michigan           | ECAR                     | RUS-7                    |
| Traverse Electric Coop Inc .....     | Minnesota          | MAPP                     | RUS-7                    |
| Tri-County Elec Member Corp.....     | Georgia            | SERC                     | RUS-7                    |
| Tri-County Elec Member Corp.....     | North Carolina     | SERC                     | RUS-7                    |
| Tri-County Elec Member Corp.....     | Tennessee          | SERC                     | RUS-7                    |
| Tri-County Electric Assn Inc.....    | South Dakota       | MAPP                     | RUS-7                    |
| Tri-County Electric Assn Inc.....    | Wyoming            | WSCC                     | RUS-7                    |
| Tri-County Electric Coop.....        | Minnesota          | MAPP                     | RUS-7                    |
| Tri-County Electric Coop.....        | Michigan           | ECAR                     | RUS-7                    |
| Tri-County Electric Coop Assn .....  | Missouri           | SPP                      | RUS-7                    |
| Tri-County Electric Coop Inc .....   | South Carolina     | SERC                     | RUS-7                    |
| Tri-County Electric Coop Inc .....   | Oklahoma           | SPP                      | RUS-7                    |
| Tri-County Electric Coop Inc .....   | Florida            | SERC                     | RUS-7                    |
| Tri-County Electric Coop Inc .....   | North Dakota       | MAPP                     | RUS-7                    |
| Tri-County Rural Elec Coop Inc ..... | Pennsylvania       | MAAC                     | RUS-7                    |
| Tri-State Electric Member Corp ..... | Georgia            | SERC                     | RUS-7                    |
| Tri-State G & T Assn Inc.....        | Colorado           | WSCC                     | RUS-12                   |
| Trico Electric Coop Inc.....         | Arizona            | WSCC                     | RUS-7                    |
| Turner-Hutchinson El Coop Inc .....  | South Dakota       | MAPP                     | RUS-7                    |
| Twin County Electric Pwr Assn.....   | Mississippi        | SERC                     | RUS-7                    |
| Twin Valley Electric Coop Inc.....   | Kansas             | SPP                      | RUS-7                    |
| Umatilla Electric Coop Assn .....    | Oregon             | WSCC                     | RUS-7                    |
| Union County Electric Coop Inc ..... | South Dakota       | MAPP                     | RUS-7                    |
| Union Electric Membership Corp.....  | North Carolina     | SERC                     | RUS-7                    |
| Union Rural Electric Coop Inc .....  | Ohio               | ECAR                     | RUS-7                    |
| United Electric Coop Inc .....       | Kansas             | SPP                      | RUS-7                    |
| United Electric Coop Inc .....       | Pennsylvania       | MAAC                     | RUS-7                    |
| United Power Assn.....               | Minnesota          | MAPP                     | RUS-12                   |
| United Power Inc.....                | Colorado           | WSCC                     | RUS-7                    |
| United Rural Elec Member Corp.....   | Indiana            | ECAR                     | RUS-7                    |
| United Rural Electric Coop Inc ..... | Ohio               | ECAR                     | RUS-7                    |
| Upper Cumberland E M C.....          | Tennessee          | SERC                     | RUS-7                    |
| Upper Missouri G&T El Coop Inc.....  | Montana            | MAPP                     | RUS-12                   |
| Upshur Rural Elec Coop Corp.....     | Texas              | SPP                      | RUS-7                    |
| Upson County Elec Member Corp .....  | Georgia            | SERC                     | RUS-7                    |
| Utilities Dist-Western IN REMC.....  | Indiana            | ECAR                     | RUS-7                    |
| Valley Electric Coop Inc.....        | Montana            | WSCC                     | RUS-7                    |
| Valley Electric Member Corp.....     | Louisiana          | SPP                      | RUS-7                    |
| Valley Rural Electric Coop Inc ..... | Pennsylvania       | MAAC                     | RUS-7                    |
| Verdigris Valley Elec Coop Inc ..... | Oklahoma           | SPP                      | RUS-7                    |
| Verendrye Electric Coop Inc .....    | North Dakota       | MAPP                     | RUS-7                    |
| Vernon Electric Coop.....            | Wisconsin          | MAPP                     | RUS-7                    |
| Victoria Electric Coop Inc .....     | Texas              | ERCOT                    | RUS-7                    |
| Victory Electric Coop Assn Inc.....  | Kansas             | SPP                      | RUS-7                    |
| Vigilante Electric Coop Inc .....    | Montana            | WSCC                     | RUS-7                    |
| Volunteer Electric Coop.....         | Tennessee          | SERC                     | RUS-7                    |
| Wabash County Rural E M C.....       | Indiana            | ECAR                     | RUS-7                    |
| Warren Electric Coop Inc .....       | Pennsylvania       | MAAC                     | RUS-7                    |
| Warren Rural Elec Coop Corp .....    | Kentucky           | SERC                     | RUS-7                    |
| Wasco Electric Coop Inc .....        | Oregon             | WSCC                     | RUS-7                    |
| Washington Elec Member Corp .....    | Georgia            | SERC                     | RUS-7                    |
| Washington Electric Coop Inc.....    | Ohio               | ECAR                     | RUS-7                    |
| Washington Electric Coop Inc.....    | Vermont            | NPCC                     | RUS-7                    |
| Washington Island El Coop Inc.....   | Wisconsin          | MAIN                     | RUS-7                    |
| Washington-St Tammany E C Inc.....   | Louisiana          | SPP                      | RUS-7                    |
| Wayne-White Counties Elec Coop ..... | Illinois           | MAIN                     | RUS-7                    |
| Webster Electric Coop .....          | Missouri           | SPP                      | RUS-7                    |
| Wells Rural Electric Co.....         | Nevada             | WSCC                     | RUS-7                    |
| West Central Electric Coop Inc.....  | Missouri           | SPP                      | RUS-7                    |
| West Central Electric Coop Inc.....  | South Dakota       | MAPP                     | RUS-7                    |
| West Florida El Coop Assn Inc.....   | Florida            | SERC                     | RUS-7                    |
| West Kentucky Rural E C C .....      | Kentucky           | ECAR                     | RUS-7                    |
| West Oregon Electric Coop Inc.....   | Oregon             | WSCC                     | RUS-7                    |
| West Plains Electric Coop Inc.....   | North Dakota       | MAPP                     | RUS-7                    |
| West River Electric Assn Inc .....   | South Dakota       | MAPP                     | RUS-7                    |
| Western Coop Electric Assn Inc.....  | Kansas             | SPP                      | RUS-7                    |
| Western Farmers Elec Coop Inc.....   | Oklahoma           | SPP                      | RUS-12                   |
| Western Illinois Elec Coop.....      | Illinois           | MAIN                     | RUS-7                    |

See footnotes at end of table.

**Table B5. Cooperative Borrowers, 1996 (Continued)**

| Utility                              | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|--------------------------------------|--------------------|--------------------------|--------------------------|
| Western Michigan Electric Coop.....  | Michigan           | MAIN                     | RUS-7                    |
| Wheatland Electric Coop Inc.....     | Kansas             | SPP                      | RUS-7                    |
| Wheatland Rural Elec Assn Inc.....   | Wyoming            | WSCC                     | RUS-7                    |
| Whetstone Valley Elec Coop Inc.....  | South Dakota       | MAPP                     | RUS-7                    |
| White County Rural E M C.....        | Indiana            | ECAR                     | RUS-7                    |
| White River Electric Assn Inc.....   | Colorado           | WSCC                     | RUS-7                    |
| White River Valley El Coop Inc.....  | Missouri           | SPP                      | RUS-7                    |
| Whitewater Valley Rural EMC.....     | Indiana            | ECAR                     | RUS-7                    |
| Wild Rice Electric Coop Inc.....     | Minnesota          | MAPP                     | RUS-7                    |
| Winnebago Rural Elec Coop Assn.....  | Iowa               | MAPP                     | RUS-7                    |
| Wiregrass Electric Coop Inc.....     | Alabama            | SERC                     | RUS-7                    |
| Withlacoochee River Elec Coop.....   | Florida            | SERC                     | RUS-7                    |
| Wolverine Pwr Supply Coop Inc.....   | Michigan           | ECAR                     | RUS-12                   |
| Wood County Electric Coop Inc.....   | Texas              | SPP                      | RUS-7                    |
| Woodbury County Rural E C A.....     | Iowa               | MAPP                     | RUS-7                    |
| Woodruff Electric Coop Corp.....     | Arkansas           | SPP                      | RUS-7                    |
| Wright County Rural Elec Coop.....   | Iowa               | MAPP                     | RUS-7                    |
| Wright-Hennepin Coop Elec Assn.....  | Minnesota          | MAPP                     | RUS-7                    |
| Wyrulec Co.....                      | Wyoming            | WSCC                     | RUS-7                    |
| Y-W Electric Assn Inc.....           | Colorado           | WSCC                     | RUS-7                    |
| Yampa Valley Electric Assn Inc.....  | Colorado           | WSCC                     | RUS-7                    |
| Yazoo Valley Elec Power Assn.....    | Mississippi        | SERC                     | RUS-7                    |
| Yellowstone Villy Elec Coop Inc..... | Montana            | WSCC                     | RUS-7                    |
| York Electric Coop Inc.....          | South Carolina     | SERC                     | RUS-7                    |

<sup>1</sup> The State in which the administrative office of the cooperative borrower is located.

<sup>2</sup> The principal North American Electric Reliability Council region in which the utility operates. See glossary for a list of all regions.

<sup>3</sup> Source of data for this publication

Sources: •Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," RUS Form 12a through 12i, "Electric Power Supply Borrowers," Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities." •Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."



**Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1996**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| <b>Investor-Owned</b>               |                    |                          |                          |
| Ajo Improvement Co.....             | Arizona            | WSCC                     | EIA-861                  |
| Block Island Power Co.....          | Rhode Island       | NPCC                     | EIA-861                  |
| Champion International Corp.....    | Montana            | WSCC                     | EIA-861                  |
| Haines Light & Power Co Inc.....    | Alaska             | ASCC                     | EIA-861                  |
| Hawaii Electric Light Co Inc.....   | Hawaii             | HI                       | EIA-861                  |
| Modern Electric Water Company.....  | Washington         | WSCC                     | EIA-861                  |
| Morenci Water & Electric Co.....    | Arizona            | WSCC                     | EIA-861                  |
| Napakiak Ircinaq Power Co.....      | Alaska             | ASCC                     | EIA-861                  |
| Panaca Power & Light Co.....        | Utah               | WSCC                     | EIA-861                  |
| Westfield Milling & El Lgt Co.....  | Wisconsin          | MAIN                     | EIA-861                  |
| <b>Cooperative</b>                  |                    |                          |                          |
| Bandera Elec Coop Inc.....          | Texas              | ERCOT                    | EIA-861                  |
| Barron Elec Coop.....               | Wisconsin          | MAPP                     | EIA-861                  |
| Bartholomew County Rural E M C..... | Indiana            | ECAR                     | EIA-861                  |
| Beauregard Electric Coop Inc.....   | Louisiana          | SPP                      | EIA-861                  |
| Big Bend Elec Coop Inc.....         | Washington         | WSCC                     | EIA-861                  |
| Bluebonnet Electric Coop Inc.....   | Texas              | ERCOT                    | EIA-861                  |
| Boone Valley Elec Coop.....         | Iowa               | MAPP                     | EIA-861                  |
| Buffalo Electric Coop.....          | Wisconsin          | MAPP                     | EIA-861                  |
| Carroll County Rural E M C.....     | Indiana            | ECAR                     | EIA-861                  |
| Cass Electric Coop.....             | Iowa               | MAPP                     | EIA-861                  |
| Central Indiana Power.....          | Indiana            | ECAR                     | EIA-861                  |
| Clark County Rural E M C.....       | Indiana            | ECAR                     | EIA-861                  |
| Consolidated Elec Coop.....         | Missouri           | MAIN                     | EIA-861                  |
| Cooke County Elec Coop Assn.....    | Texas              | ERCOT                    | EIA-861                  |
| Cuivre River Electric Coop Inc..... | Missouri           | MAIN                     | EIA-861                  |
| Delta Electric Power Assn.....      | Mississippi        | SERC                     | EIA-861                  |
| Denton Cnty Elec Coop Inc.....      | Texas              | ERCOT                    | EIA-861                  |
| Dickens Elec Coop Inc.....          | Texas              | ERCOT                    | EIA-861                  |
| Eau Claire Elec Coop.....           | Wisconsin          | MAPP                     | EIA-861                  |
| Fall River Rural Elec Coop.....     | Idaho              | WSCC                     | EIA-861                  |
| Farmers Electric Co.....            | Idaho              | WSCC                     | EIA-861                  |
| Farmers Mutual Power Assn.....      | Nevada             | WSCC                     | EIA-861                  |
| Fayette Electric Coop Inc.....      | Texas              | ERCOT                    | EIA-861                  |
| Flathead Electric Coop Inc.....     | Montana            | WSCC                     | EIA-861                  |
| Fort Belknap Electric Coop Inc..... | Texas              | ERCOT                    | EIA-861                  |
| Glacier Electric Coop Inc.....      | Montana            | WSCC                     | EIA-861                  |
| Graham County Elec Coop Inc.....    | Arizona            | WSCC                     | EIA-861                  |
| Guadalupe Valley Elec Coop.....     | Texas              | ERCOT                    | EIA-861                  |
| Hendricks County Rural E M C.....   | Indiana            | ECAR                     | EIA-861                  |
| Hill County Elec Coop.....          | Texas              | ERCOT                    | EIA-861                  |
| Hood River Electric Coop.....       | Oregon             | WSCC                     | EIA-861                  |
| Kiamichi Elec Coop Inc.....         | Oklahoma           | SPP                      | EIA-861                  |
| Kosciusko Cnty Rural EMC.....       | Indiana            | ECAR                     | EIA-861                  |
| Lakeview Light & Power.....         | Washington         | WSCC                     | EIA-861                  |
| Lee County Electric Coop Inc.....   | Florida            | SERC                     | EIA-861                  |
| Licking Rural Electric Inc.....     | Ohio               | ECAR                     | EIA-861                  |
| Lower Valley Pwr & Lgt Inc.....     | Wyoming            | WSCC                     | EIA-861                  |
| Marshall-De Kalb Elec Coop.....     | Alabama            | SERC                     | EIA-861                  |
| Miami-Cass Cnty Rural EMC.....      | Indiana            | ECAR                     | EIA-861                  |
| Mid-South Electric Coop Assn.....   | Texas              | ERCOT                    | EIA-861                  |
| Navasota Valley Elec Coop.....      | Texas              | ERCOT                    | EIA-861                  |
| New Enterprise R E C Inc.....       | Pennsylvania       | MAAC                     | EIA-861                  |
| Niobrara Valley El Mbr Corp.....    | Nebraska           | SPP                      | EIA-861                  |
| Nishnabotna Valley REC.....         | Iowa               | MAPP                     | EIA-861                  |
| Noble Cnty Rural EMC.....           | Indiana            | ECAR                     | EIA-861                  |
| North West Rural Elec Coop.....     | Iowa               | MAPP                     | EIA-861                  |
| Oceana Electric Coop.....           | Michigan           | ECAR                     | EIA-861                  |
| Oklahoma Elec Coop Inc.....         | Oklahoma           | SPP                      | EIA-861                  |
| Paulding-Putman Elec Coop.....      | Ohio               | ERCOT                    | EIA-861                  |
| Pedernales Elec Coop Inc.....       | Texas              | ERCOT                    | EIA-861                  |
| Penoyer Valley Electric Coop.....   | Nevada             | WSCC                     | EIA-861                  |
| Pierce-Pepin Elec Coop.....         | Wisconsin          | MAPP                     | EIA-861                  |
| Pontotoc Elec Power Assoc.....      | Mississippi        | SERC                     | EIA-861                  |
| Prentiss Cnty Elec Pwr Assoc.....   | Mississippi        | SERC                     | EIA-861                  |
| Presque Isle Electric Coop Inc..... | Michigan           | ECAR                     | EIA-861                  |
| Rural Electric Co.....              | Idaho              | WSCC                     | EIA-861                  |
| Salem Electric.....                 | Oregon             | WSCC                     | EIA-861                  |
| San Bernard Elec Coop Inc.....      | Texas              | ERCOT                    | EIA-861                  |
| Scott-New Madrid-MS El Coop.....    | Missouri           | MAPP                     | EIA-861                  |
| South Side Elec Lines, Inc.....     | Idaho              | WSCC                     | EIA-861                  |
| Steuben County Rural EMC.....       | Indiana            | ECAR                     | EIA-861                  |
| Taylor Electric Coop.....           | Wisconsin          | MAPP                     | EIA-861                  |

See footnotes at end of table.

**Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1996 (Continued)**

| Utility                            | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|------------------------------------|--------------------|--------------------------|--------------------------|
| Tippah Elec Power Assoc.....       | Mississippi        | SERC                     | EIA-861                  |
| Trempealeau Elec Coop.....         | Wisconsin          | MAPP                     | EIA-861                  |
| TriCounty Rural Elec Coop Inc..... | Ohio               | ECAR                     | EIA-861                  |
| Unity Light & Power Coop.....      | Idaho              | WSCC                     | EIA-861                  |
| Warren County Rural EMC.....       | Indiana            | ECAR                     | EIA-861                  |
| Wharton Cnty Elec Coop Inc.....    | Texas              | ERCOT                    | EIA-861                  |
| Wise Elec Coop Inc.....            | Texas              | ERCOT                    | EIA-861                  |
| 4-County Electric Power Assn.....  | North Carolina     | SERC                     | EIA-861                  |
| <b>Municipal</b> .....             |                    |                          |                          |
| Aberdeen City of.....              | Mississippi        | SERC                     | EIA-861                  |
| Albany City of.....                | Missouri           | SPP                      | EIA-861                  |
| Albion City of.....                | Idaho              | WSCC                     | EIA-861                  |
| Alder Mutual Lgt Co.....           | Washington         | WSCC                     | EIA-861                  |
| Alpha City of.....                 | Minnesota          | MAPP                     | EIA-861                  |
| Alvarado City of.....              | Minnesota          | MAPP                     | EIA-861                  |
| Amory City of.....                 | Mississippi        | SERC                     | EIA-861                  |
| Anadarko Public Works Auth.....    | Oklahoma           | SPP                      | EIA-861                  |
| Aplington City of.....             | Iowa               | MAPP                     | EIA-861                  |
| Arcadia City of.....               | Wisconsin          | MAPP                     | EIA-861                  |
| Arctic Utilities Inc.....          | Alaska             | ASCC                     | EIA-861                  |
| Argyle City of.....                | Wisconsin          | MAPP                     | EIA-861                  |
| Ava City of.....                   | Missouri           | SPP                      | EIA-861                  |
| Bancroft City of.....              | Iowa               | MAPP                     | EIA-861                  |
| Bandon City of.....                | Oregon             | WSCC                     | EIA-861                  |
| Bartley Village of.....            | Nebraska           | MAPP                     | EIA-861                  |
| Basin Town of.....                 | Wyoming            | WSCC                     | EIA-861                  |
| Belleville City of.....            | Kansas             | SPP                      | EIA-861                  |
| Bennettsville City of.....         | South Carolina     | SERC                     | EIA-861                  |
| Bethany City of.....               | Missouri           | MAIN                     | EIA-861                  |
| Bigelow City of.....               | Minnesota          | MAPP                     | EIA-861                  |
| Blaine City of.....                | Washington         | WSCC                     | EIA-861                  |
| Bloomfield City of.....            | Iowa               | MAPP                     | EIA-861                  |
| Bonnars Ferry City of.....         | Idaho              | WSCC                     | EIA-861                  |
| Braman Town of.....                | Oklahoma           | SPP                      | EIA-861                  |
| Brooklyn City of.....              | Iowa               | MAPP                     | EIA-861                  |
| Brownsville City of.....           | Tennessee          | SERC                     | EIA-861                  |
| Brundidge City of.....             | Alabama            | SERC                     | EIA-861                  |
| Burley City of.....                | Idaho              | WSCC                     | EIA-861                  |
| Burlington City of.....            | Oklahoma           | SPP                      | EIA-861                  |
| Butler City of.....                | Missouri           | SPP                      | EIA-861                  |
| Cabool City of.....                | Missouri           | MAIN                     | EIA-861                  |
| Caledonia City of.....             | Minnesota          | MAPP                     | EIA-861                  |
| Caliente City of.....              | Nevada             | WSCC                     | EIA-861                  |
| Cameron City of.....               | Missouri           | SPP                      | EIA-861                  |
| Campbell Village of.....           | Nebraska           | MAPP                     | EIA-861                  |
| Cannelton Utilities.....           | Indiana            | ECAR                     | EIA-861                  |
| Cascade City of.....               | Iowa               | MAPP                     | EIA-861                  |
| Cascade Locks City of.....         | Oregon             | WSCC                     | EIA-861                  |
| Cashton Village of.....            | Wisconsin          | MAPP                     | EIA-861                  |
| Ceylon City of.....                | Minnesota          | MAPP                     | EIA-861                  |
| Chester Mun Elec Light Dept.....   | Massachusetts      | NPCC                     | EIA-861                  |
| Chewelah Light Dept.....           | Washington         | MAPP                     | EIA-861                  |
| Chillicothe City of.....           | Missouri           | SPP                      | EIA-861                  |
| Cordell City of.....               | Oklahoma           | SPP                      | EIA-861                  |
| Corwith City of.....               | Iowa               | MAPP                     | EIA-861                  |
| Coulee Dam Light Dept.....         | Washington         | WSCC                     | EIA-861                  |
| Courtland City of.....             | Alabama            | SERC                     | EIA-861                  |
| Crane City of.....                 | Missouri           | MAIN                     | EIA-861                  |
| Cuba City of.....                  | Missouri           | MAIN                     | EIA-861                  |
| Culpeper Town of.....              | Virginia           | SERC                     | EIA-861                  |
| Cumberland City of.....            | Wisconsin          | MAPP                     | EIA-861                  |
| Dakota Elec Assoc.....             | Minnesota          | MAPP                     | EIA-861                  |
| Darwin Village of.....             | Minnesota          | MAPP                     | EIA-861                  |
| Dayton City of.....                | Iowa               | MAPP                     | EIA-861                  |
| Dayton City of.....                | Tennessee          | SERC                     | EIA-861                  |
| Decatur Village of.....            | Nebraska           | MAPP                     | EIA-861                  |
| Declo City of.....                 | Idaho              | WSCC                     | EIA-861                  |
| Dighton City of.....               | Kansas             | SPP                      | EIA-861                  |
| Doerun City of.....                | Georgia            | SERC                     | EIA-861                  |
| Drain Electric Dept.....           | Oregon             | WSCC                     | EIA-861                  |
| Dunnell Village of.....            | Minnesota          | MAPP                     | EIA-861                  |
| Durant City of.....                | Iowa               | MAPP                     | EIA-861                  |
| Earlville City of.....             | Iowa               | MAPP                     | EIA-861                  |
| East End Mutual Elec Co Ltd.....   | Idaho              | WSCC                     | EIA-861                  |

See footnotes at end of table.

**Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1996 (Continued)**

| Utility                             | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|-------------------------------------|--------------------|--------------------------|--------------------------|
| Easton City of.....                 | Missouri           | SPP                      | EIA-861                  |
| Eatonville Town of.....             | Washington         | WSCC                     | EIA-861                  |
| Elba City of.....                   | Alabama            | SERC                     | EIA-861                  |
| Electra City of.....                | Texas              | ERCOT                    | EIA-861                  |
| Elk Point City of.....              | South Dakota       | MAPP                     | EIA-861                  |
| Ellsworth City of.....              | Iowa               | MAPP                     | EIA-861                  |
| Elmhurst Mutual Power & Lgt.....    | Washington         | WSCC                     | EIA-861                  |
| Elroy City of.....                  | Wisconsin          | MAPP                     | EIA-861                  |
| Emerson City of.....                | Nebraska           | MAPP                     | EIA-861                  |
| Endicott Village of.....            | Nebraska           | MAPP                     | EIA-861                  |
| Escanaba Munic Elec Util.....       | Michigan           | ECAR                     | EIA-861                  |
| Etowah City of.....                 | Tennessee          | SERC                     | EIA-861                  |
| Fairfield City of.....              | Illinois           | MAIN                     | EIA-861                  |
| Farnhamville City of.....           | Iowa               | MAPP                     | EIA-861                  |
| Fayette City of.....                | Missouri           | MAIN                     | EIA-861                  |
| Fennimore City of.....              | Wisconsin          | MAPP                     | EIA-861                  |
| Forest City City of.....            | Iowa               | MAPP                     | EIA-861                  |
| Fort Supply Town of.....            | Oklahoma           | SPP                      | EIA-861                  |
| Fountain Town of.....               | North Carolina     | SERC                     | EIA-861                  |
| Franklin City of.....               | Kentucky           | SERC                     | EIA-861                  |
| Gallatin City of.....               | Missouri           | MAIN                     | EIA-861                  |
| Garrison City of.....               | Texas              | ERCOT                    | EIA-861                  |
| Glasgow City of.....                | Kentucky           | SERC                     | EIA-861                  |
| Gowrie Municipal Utilities.....     | Iowa               | MAPP                     | EIA-861                  |
| Granada Town of.....                | Colorado           | WSCC                     | EIA-861                  |
| Greenfield City of.....             | Iowa               | MAPP                     | EIA-861                  |
| Grove City City of.....             | Minnesota          | MAPP                     | EIA-861                  |
| Grundy Center City of.....          | Iowa               | MAPP                     | EIA-861                  |
| Harmony City of.....                | Minnesota          | MAPP                     | EIA-861                  |
| Hartselle City of.....              | Alabama            | SERC                     | EIA-861                  |
| Hearne City of.....                 | Texas              | ERCOT                    | EIA-861                  |
| Hemphill City of.....               | Texas              | SPP                      | EIA-861                  |
| Herndon City of.....                | Kansas             | SPP                      | EIA-861                  |
| Heyburn City of.....                | Idaho              | WSCC                     | EIA-861                  |
| Houston City of.....                | Missouri           | SPP                      | EIA-861                  |
| Hunnewell City of.....              | Missouri           | SPP                      | EIA-861                  |
| Iuka City of.....                   | Kansas             | SPP                      | EIA-861                  |
| Johnson City of.....                | Kansas             | SPP                      | EIA-861                  |
| Keosauqua City of.....              | Iowa               | MAPP                     | EIA-861                  |
| Kiowa City of.....                  | Kansas             | SPP                      | EIA-861                  |
| La Farge Municipal Electric Co..... | Wisconsin          | MAPP                     | EIA-861                  |
| La Plata City of.....               | Missouri           | MAIN                     | EIA-861                  |
| Lake Mills City of.....             | Iowa               | MAPP                     | EIA-861                  |
| Lakin City of.....                  | Kansas             | SPP                      | EIA-861                  |
| Lamoni City of.....                 | Iowa               | MAPP                     | EIA-861                  |
| Lanesboro Public Utility Comm.....  | Minnesota          | MAPP                     | EIA-861                  |
| Larchwood City of.....              | Iowa               | MAPP                     | EIA-861                  |
| Lehigh City of.....                 | Iowa               | MAPP                     | EIA-861                  |
| Lindsay City of.....                | Oklahoma           | SPP                      | EIA-861                  |
| Louisville Electric System.....     | Mississippi        | SERC                     | EIA-861                  |
| Mabel City of.....                  | Minnesota          | MAPP                     | EIA-861                  |
| Macon City of.....                  | Missouri           | MAIN                     | EIA-861                  |
| Mansfield City of.....              | Missouri           | MAIN                     | EIA-861                  |
| Mayfield City of.....               | Kentucky           | ECAR                     | EIA-861                  |
| McCleary Light & Power.....         | Washington         | WSCC                     | EIA-861                  |
| McLeansboro City of.....            | Illinois           | MAIN                     | EIA-861                  |
| Meade City of.....                  | Kansas             | SPP                      | EIA-861                  |
| Meadville City of.....              | Missouri           | SPP                      | EIA-861                  |
| Memphis City of.....                | Missouri           | MAIN                     | EIA-861                  |
| Midvale Irrigation District.....    | Wyoming            | WSCC                     | EIA-861                  |
| Milan City of.....                  | Missouri           | SPP                      | EIA-861                  |
| Milltown Borough of.....            | New Jersey         | MAAC                     | EIA-861                  |
| Milton City of.....                 | Washington         | WSCC                     | EIA-861                  |
| Minidoka City of.....               | Idaho              | WSCC                     | EIA-861                  |
| Monmouth City of.....               | Oregon             | WSCC                     | EIA-861                  |
| Monroe City City of.....            | Missouri           | SPP                      | EIA-861                  |
| Moore Haven City of.....            | Florida            | SERC                     | EIA-861                  |
| Mooreland City of.....              | Oklahoma           | SPP                      | EIA-861                  |
| Mountain View City of.....          | Missouri           | SPP                      | EIA-861                  |
| Muscle Shoals City of.....          | Alabama            | SERC                     | EIA-861                  |
| Nashwauk City of.....               | Minnesota          | MAPP                     | EIA-861                  |
| New Hampton City of.....            | Iowa               | MAPP                     | EIA-861                  |
| New Lisbon City of.....             | Wisconsin          | MAPP                     | EIA-861                  |
| Newberry Water & Light Board.....   | Michigan           | ECAR                     | EIA-861                  |

See footnotes at end of table.

**Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1996 (Continued)**

| Utility                            | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|------------------------------------|--------------------|--------------------------|--------------------------|
| Newburg City of .....              | Missouri           | MAIN                     | EIA-861                  |
| Norton City of .....               | Kansas             | SPP                      | EIA-861                  |
| Oak City Town of .....             | North Carolina     | SERC                     | EIA-861                  |
| Ohop Mutual Light Co .....         | Washington         | WSCC                     | EIA-861                  |
| Onida City of .....                | South Dakota       | MAPP                     | EIA-861                  |
| Opp City of .....                  | Alabama            | SERC                     | EIA-861                  |
| Osage City of .....                | Iowa               | MAPP                     | EIA-861                  |
| Oxford City of .....               | Georgia            | SERC                     | EIA-861                  |
| Oxford City of .....               | Mississippi        | SERC                     | EIA-861                  |
| Palmyra City of .....              | Missouri           | MAIN                     | EIA-861                  |
| Panama Village of .....            | Nebraska           | MAPP                     | EIA-861                  |
| Panora Mun Electric Util .....     | Iowa               | MAPP                     | EIA-861                  |
| Paris City of .....                | Missouri           | SPP                      | EIA-861                  |
| Park Ridge Elec Dept Borough ..... | New Jersey         | MAAC                     | EIA-861                  |
| Parkland Light & Water Co .....    | Washington         | WSCC                     | EIA-861                  |
| Paton City of .....                | Iowa               | MAPP                     | EIA-861                  |
| Pattonsburg City of .....          | Missouri           | MAIN                     | EIA-861                  |
| Peninsula Light Company .....      | Washington         | WSCC                     | EIA-861                  |
| Peterson City of .....             | Minnesota          | MAPP                     | EIA-861                  |
| Philadelphia City of .....         | Mississippi        | SERC                     | EIA-861                  |
| Pioche City of .....               | Nevada             | WSCC                     | EIA-861                  |
| Plains City of .....               | Texas              | SPP                      | EIA-861                  |
| Plummer Electric Dept .....        | Idaho              | WSCC                     | EIA-861                  |
| PUD No 1 Asotin County .....       | Washington         | WSCC                     | EIA-861                  |
| Radium City of .....               | Kansas             | SPP                      | EIA-861                  |
| Red Bud City of .....              | Illinois           | MAIN                     | EIA-861                  |
| Renwick City of .....              | Iowa               | MAPP                     | EIA-861                  |
| Reynolds Village of .....          | Nebraska           | MAPP                     | EIA-861                  |
| Richland City of .....             | Missouri           | MAIN                     | EIA-861                  |
| Rockport City of .....             | Missouri           | SPP                      | EIA-861                  |
| Round Lake City of .....           | Minnesota          | MAPP                     | EIA-861                  |
| Rupert City of .....               | Idaho              | WSCC                     | EIA-861                  |
| Rushmore City of .....             | Minnesota          | MAPP                     | EIA-861                  |
| Russell Municipal Light Dept ..... | Massachusetts      | NPCC                     | EIA-861                  |
| Russellville City of .....         | Kentucky           | SERC                     | EIA-861                  |
| Salem City of .....                | Missouri           | SPP                      | EIA-861                  |
| San Augustine City of .....        | Texas              | SPP                      | EIA-861                  |
| Sanger City of .....               | Texas              | ERCOT                    | EIA-861                  |
| Seymour City of .....              | Missouri           | SPP                      | EIA-861                  |
| Seymour City of .....              | Texas              | ERCOT                    | EIA-861                  |
| Shelbina City of .....             | Missouri           | SPP                      | EIA-861                  |
| Soda Springs City of .....         | Idaho              | WSCC                     | EIA-861                  |
| Spring Grove City of .....         | Minnesota          | MAPP                     | EIA-861                  |
| Springer Town of .....             | New Mexico         | SPP                      | EIA-861                  |
| St Paul City of .....              | Nebraska           | MAPP                     | EIA-861                  |
| St Robert City of .....            | Missouri           | MAIN                     | EIA-861                  |
| Stanberry City of .....            | Missouri           | SPP                      | EIA-861                  |
| Stanton City of .....              | Iowa               | MAPP                     | EIA-861                  |
| Steelville City of .....           | Missouri           | MAIN                     | EIA-861                  |
| Steilacoom Town of .....           | Washington         | WSCC                     | EIA-861                  |
| Stratford City of .....            | Iowa               | MAPP                     | EIA-861                  |
| Stratton City of .....             | Nebraska           | MAPP                     | EIA-861                  |
| Stromsburg City of .....           | Nebraska           | MAPP                     | EIA-861                  |
| Stuart Municipal Utility .....     | Iowa               | MAPP                     | EIA-861                  |
| Sullivan City of .....             | Missouri           | MAIN                     | EIA-861                  |
| Summer City of .....               | Iowa               | MAPP                     | EIA-861                  |
| Sweetwater City of .....           | Tennessee          | SERC                     | EIA-861                  |
| Talmage Village of .....           | Nebraska           | MAPP                     | EIA-861                  |
| Tennant City of .....              | Iowa               | MAPP                     | EIA-861                  |
| Timpson City of .....              | Texas              | ERCOT                    | EIA-861                  |
| Trenton City of .....              | Nebraska           | MAPP                     | EIA-861                  |
| Troy City of .....                 | Indiana            | ECAR                     | EIA-861                  |
| Troy City of .....                 | Montana            | ECAR                     | EIA-861                  |
| Tuskegee City of .....             | Alabama            | SERC                     | EIA-861                  |
| Unalaska City of .....             | Alaska             | ASCC                     | EIA-861                  |
| Vandalia City of .....             | Missouri           | MAIN                     | EIA-861                  |
| Village of Holbrook .....          | Nebraska           | MAPP                     | EIA-861                  |
| Viola City of .....                | Wisconsin          | MAPP                     | EIA-861                  |
| Waelder Utilities .....            | Texas              | ERCOT                    | EIA-861                  |
| Waynesville City of .....          | Missouri           | SPP                      | EIA-861                  |
| Webster City City of .....         | Iowa               | MAPP                     | EIA-861                  |
| Weimar Utilities .....             | Texas              | ERCOT                    | EIA-861                  |
| Welsh Town of .....                | Louisiana          | SPP                      | EIA-861                  |
| West Bend City of .....            | Iowa               | MAPP                     | EIA-861                  |

See footnotes at end of table.

**Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1996 (Continued)**

| Utility                      | State <sup>1</sup> | NERC Region <sup>2</sup> | Survey Form <sup>3</sup> |
|------------------------------|--------------------|--------------------------|--------------------------|
| West Point City of .....     | Mississippi        | SERC                     | EIA-861                  |
| Westfield Town of .....      | Iowa               | MAPP                     | EIA-861                  |
| Whalan City of .....         | Minnesota          | MAPP                     | EIA-861                  |
| Whitesboro City of .....     | Texas              | ERCOT                    | EIA-861                  |
| Willow Springs City of ..... | Missouri           | SPP                      | EIA-861                  |
| Wilton City of .....         | Iowa               | MAPP                     | EIA-861                  |
| Winchester City of .....     | Tennessee          | SERC                     | EIA-861                  |
| Winona City of .....         | Missouri           | SPP                      | EIA-861                  |
| Winterset City of .....      | Iowa               | MAPP                     | EIA-861                  |
| Woodsfield City of .....     | Ohio               | ECAR                     | EIA-861                  |
| Woolstock City of .....      | Iowa               | MAPP                     | EIA-861                  |

<sup>1</sup> The State in which the administrative or corporate office of the utility is located.

<sup>2</sup> The principal North American Electric Reliability Council region in which the utility operates. See glossary for a list of all regions.

<sup>3</sup> Source of data for this publication

Note: These electric utilities are not reported elsewhere because they fall below the class of ownership survey threshold and/or information on exchanges and wheeling for selected utilities are only reported on the Form, EIA-861.

Source: •Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

**Table B7. Electric Power Marketers in the United States, 1996**

| Company Name                     | Total Purchase<br>(megawatthours) | Total Sales<br>(megawatthours) | Total Revenue<br>from Sales<br>(thousand dollars) |
|----------------------------------|-----------------------------------|--------------------------------|---|
| e prime, inc                     | 1,144,900                         | 1,144,900                      | 14,366  |
| Amoco Energy Trading Corp        | 2,978,240                         | 2,978,240                      | 72,895  |
| Aquila Power Corp                | 65,302,125                        | 65,301,117                     | 1,500,589   |
| Avista Energy, Inc               | 208,798                           | —                              | 91,621  |
| AES Power, Inc.                  | 6,297,271                         | 6,001,560                      | 112,333   |
| AIG Trading Corporation          | 23,978,917                        | 23,978,502                     | 586,141   |
| AYP Energy, Inc.                 | 3,695,758                         | 3,695,758                      | 81,736  |
| Bonneville Fuels Management Corp | 19,918                            | 19,918                         | 506   |
| Bruin Energy, Inc.               | 31                                | —                              | —   |
| Calpine Power Marketing, Inc.    | 987,600                           | 987,600                        | 15,384  |
| Cargill-Alliant LLC              | 78,155                            | 78,155                         | 1,649   |
| Catex Vitrol Electric            | 64,657,017                        | 64,568,331                     | 1,552,728   |
| Citizens Power Sales             | 34,513,838                        | 34,510,711                     | 801,436   |
| Cogentrix Energy Pwr Marketing   | 2,386,107                         | 2,386,107                      | 36,767  |
| Constellation Pwr Source, Inc    | 1,268,381                         | 1,268,196                      | 30,478  |
| Cook Inlet Energy Supply         | 3,200                             | 3,200                          | 72  |
| Coral Power LLC                  | 9,842,916                         | 9,842,916                      | 235,110   |
| CL Power Sales Two LLC           | 356,354                           | 356,354                        | 17,736  |
| CNG Power Services Corp          | 25,248,346                        | 25,248,346                     | 594,575   |
| CNG Retail Services Corp         | 12,087                            | —                              | —   |
| Delhi Energy Services, Inc       | 5,820,187                         | 5,812,676                      | 158,453   |
| Destec Power Services Inc        | 636,554                           | 557,339                        | 20,544  |
| Duke Energy Trading & Mkt 'g     | 22,469,842                        | 21,623,375                     | 531,805   |
| Duke/Lous Dreyfus LLC            | 69,234,296                        | 69,333,306                     | 1,590,104   |
| Dupont Power Marketing, Inc      | 21,020,473                        | 21,003,964                     | 507,800   |
| DTE Energy Trading, Inc          | 540                               | 500                            | 13  |
| DTE-CoEnergy LLC                 | 2,157                             | —                              | —   |
| Edison Source Energy, Inc        | 2,195,184                         | 2,195,184                      | 45,172  |
| El Paso Energy Marketing Co      | 9,486,238                         | 9,486,238                      | 239,101   |
| Electric Clearinghouse           | 93,644,728                        | 93,589,956                     | 2,269,066   |
| Energis Resources, Inc           | 36,293                            | 3,796                          | 89  |
| Energy Masters international In  | 147,320                           | 147,015                        | 1,968   |
| Energy Services, Inc             | 4,201,332                         | 1,158,250                      | 16,575  |
| Energy Transfer Group LLC        | 196,374                           | 196,374                        | 358   |
| EnerZ Corporation                | 5,326,875                         | 5,326,875                      | 132,184   |
| Engage Energy US, LP             | 31,048,000                        | 31,048,000                     | 755,490   |
| Engelhard Power Marketing, Inc   | 3,180,950                         | 3,180,950                      | 89,234  |
| Enron Power Marketing            | 189,532,718                       | 188,780,078                    | 4,384,277   |
| EPEC Marketing Company           | 2,986,650                         | 2,986,650                      | 64,167  |
| Federal Energy Sales, Inc        | 1,734,643                         | 1,735,302                      | —   |
| GEN-SYS Energy                   | 381,888                           | 381,888                        | 6,182   |
| GPU Advanced Resources, Inc      | 17,821                            | —                              | —   |
| Hartford Power Sales LLC         | 335,326                           | 335,326                        | 20,309  |
| Hinson Power Company             | 1,215,795                         | 1,215,795                      | 28,324  |
| Horizon Energy Company           | 114,423                           | —                              | —   |
| Illinova Power Marketing, Inc    | 35,567,702                        | 35,236,177                     | 703,426   |
| International Util Consult Inc   | 400                               | 400                            | 9   |
| InterCoast Power Marketing Co    | 80,945                            | 80,945                         | 1,586   |
| IGI Resources, Inc               | 470,900                           | 322,092                        | 4,043   |
| Koch Energy Trading, Inc         | 16,167,546                        | 16,156,106                     | 398,362   |
| KN Marketing Inc                 | 3,266,094                         | 3,266,094                      | 4,614   |
| Louis Dreyfus Elec Pwr           | —                                 | —                              | —   |
| LG&E Power Marketing             | 49,296,450                        | 53,384,815                     | 1,183,564   |
| MidCon Power Services Corp       | 4,354,730                         | 4,354,730                      | 112,316   |
| Montana Power Trad&Market 'g C   | 53,048                            | 52,351                         | 862   |
| Morgan Stanley Capital Group     | 10,290,030                        | 10,290,030                     | 158,451   |
| National Fuel Resources, Inc     | 671                               | —                              | —   |
| National Gas & Electric LP       | 1,284,699                         | 1,239,814                      | 33,501  |
| New Millennium Energy Corp       | 39                                | —                              | —   |
| North American Energy Cons       | 5,606,782                         | 5,499,071                      | 114,619   |
| NorAm Energy Services, Inc       | 25,025,901                        | 25,025,901                     | 608,032   |
| NESI Power Marketing, Inc        | 7,455,970                         | 7,455,012                      | 167,050   |
| NEV LLC                          | 1,010,203                         | 960,903                        | 18,233  |
| NP Energy, Inc                   | 10,231,967                        | 10,231,967                     | 257,267   |
| NUI Energy Brokers, Inc          | —                                 | —                              | —   |
| PacifiCorp Power Marketing Inc   | 35,800,241                        | 35,800,241                     | 911,929   |
| Phibro, Inc                      | 4,527,914                         | 4,527,914                      | 116,032   |
| Plum Street Energy Market Co     | 3,265,235                         | 3,258,614                      | 87,146  |
| Powertec International LLC       | —                                 | —                              | —   |
| Progress Power Marketing, Inc    | 1,540                             | 1,532                          | 40  |
| Proliance Energy LCC             | 89,176                            | 89,176                         | 2,203   |
| PG&E Energy Services             | 4,466,983                         | 4,466,983                      | 88,851  |
| Questar Energy Trading Company   | 699,267                           | 699,267                        | 12,110  |
| QST Energy Trading, Inc          | 1,069,135                         | 1,069,135                      | 25,073  |
| QST Energy, Inc                  | 350,759                           | 4,308                          | 63  |

See footnotes at end of table.

**Table B7. Electric Power Marketers in the United States, 1996--Continued**

| Company Name                         | Total Purchase<br>(megawatthours) | Total Sales<br>(megawatthours) | Total Revenue<br>from Sales<br>(thousand dollars) |
|--------------------------------------|-----------------------------------|--------------------------------|---|
| Rainbow Energy Marketing.....        | 848,866                           | 845,034                        | 23,532  |
| Sonat Power Mkt 'g Limited.....      | 8,782,536                         | 8,767,524                      | 225,282   |
| Southern Energy Trd 'g & Mkt'g.....  | 76,808,022                        | 76,808,022                     | 1,880,743   |
| Stand Energy Corporation.....        | 3,559,909                         | 3,559,909                      | 67,943  |
| State Line Energ LCC.....            | 7,642                             | 7,642                          | 216   |
| Strategic Energy Limited.....        | —                                 | —                              | —   |
| Sunoco Power Marketing LLC.....      | 364                               | 364                            | 7   |
| SCANA Energy Marketing, Inc.....     | 109,964                           | 108,556                        | 2,129   |
| Tenaska Power Services Co.....       | 1,229,515                         | 1,226,940                      | 24,740  |
| Tennessee Power Company.....         | 117,665                           | 117,665                        | 2,048   |
| The Power Co of America LP.....      | 18,203,968                        | 18,198,374                     | 423,097   |
| Tractebel Energy Markt 'g Inc.....   | 2,582,800                         | 2,582,800                      | 64,079  |
| Unitil Resources, Inc.....           | 16,800                            | —                              | —   |
| UGI Power Supply, Inc.....           | 107                               | —                              | —   |
| Vastar Power Marketing, Inc.....     | 5,901,096                         | 5,900,487                      | 141,505   |
| Wheeled Electric Power Company.....  | 1,727,392                         | —                              | —   |
| Williams Energy Services Co.....     | 13,258,110                        | 13,258,110                     | 332,432   |
| Williams Generation Co-Hazeltn.....  | —                                 | 816                            | 16  |
| Working Assets Green Power, Inc..... | 4,551                             | —                              | —   |
| XENERGY, INC.....                    | 246,903                           | —                              | —   |

Notes: •Active Power Marketers that submitted information to EIA. •Information on cost of purchase power are not collected on the Form EIA-861.  
Source: Energy Information Administration, Form EIA-861 "Annual Electric Utility Report."

# **Appendix C**

## **Fundamentals of Electric Power Transmission and Integrating Nonutility Generators**



## Appendix C

# Fundamentals of Electric Power Transmission and Integrating Nonutility Generators

## Fundamentals of the Electric Power Transmission System

The electric power system in the United States contains three interrelated elements: the generating facilities that produce the power; the transmission network that conducts the flow of power from the points of generation to the points of distribution; and the distribution system that delivers the electric power to the consumers. The transmission network is the integrating medium of the power supply system providing the electrical connections between the many geographically separated parts of the electric power generating and distribution systems.

The electric transmission network is unlike any other mode of transportation. The flow of electricity is virtually instantaneous, changing magnitude and direction as conditions on the power system dictate.<sup>17</sup> Electricity distributes itself along paths of least resistance that are determined by a complex electrical relationship involving the relative size, location and distribution of generation resources, transmission line facilities, and centers of demand. All transmission paths share the power transfer, and the degree of sharing is determined by the relationship of the network components. The system consists of transmission lines, substations with voltage transformers, circuit breakers, and other equipment required to transmit power safely from generation sources to ultimate customers. Transmission voltage levels have increased with improvements in technology and in keeping with the growing demand for electricity.

The transmission system performs several essential functions simultaneously: (1) it supplies the physical means for delivering electricity from the generating sources to the load centers; (2) it integrates generating sources and load centers into a flexible and resilient whole; and (3) it interconnects the physical facilities with those of neighboring systems. Although transmission lines are often added to the network initially to meet a single specific requirement, once added they become an integrated part of the transmission network

and their operation becomes interdependent with all the other elements of the network. Operating the system effectively requires significant planning and operational coordination of the generators and transmission facilities to: (1) achieve efficient use of all system facilities, (2) prevent overloading and failure, and (3) maintain adequate reserve transmission and generation capacity to ensure system reliability.

### *The Need for Coordination of System Operation*

The current electrical system has developed in response to the regulations and economics of the electrical utility and nonutility sectors of the electric power industry, as well as to the changing technical factors that influence the generation, transmission, and distribution of electricity. Since the different electrical systems operate as a unified power grid (there are three in the contiguous United States) and the effects of power flows are not confined to contractual paths or apparent direct paths, handling the ever changing flow of electricity is a critical activity for system operators of the power grids. Large power transfers, for example, can change transmission line loadings hundreds of miles from the direct electrical path connecting the source and destination. Actions by individual utilities or NUGs can affect the operation of all the others on the system.

### *Control and Operation of Electric Systems*

As electrical energy itself cannot be stored (at the voltage and ampere levels in use on a power grid), power must be instantaneously available to end users at any time, in any amount at the proper voltage. As a result, severe demands are imposed on electrical equipment and the transmission network when meeting changing loads. Monitoring the flow of scheduled electricity, handling customer requirements, and coordinating trade among utilities are the responsibility of the dispatch center. A dispatch center

<sup>17</sup> The frequency of electric power supply in the United States is almost entirely 60 hertz (formerly cycles per second). The frequency of a system depends entirely upon the speed at which the supply generator is rotated by its prime mover. James Robert Eaton, *Electric Power Transmission Systems* (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1972), pp. 2-3.

can be operated independently of other electrical systems by a single utility; it can link two or more interconnected utilities, or even unify several power systems with combined load requirements and maintenance programs.

The operators of dispatch centers must continually monitor load patterns to ensure that adequate electricity is available at all times. For most dispatch centers, it is the daily responsibility to (1) record the flow of electricity at the customer load centers and the entering and exiting amounts on its transmission lines, (2) watch the transmission connecting points for each interconnected electrical system, and (3) monitor the power flow from each generation plant. The dispatch center determines the power available from its system, balances the unit-generation marginal costs with buy-or-sell opportunities with other utilities, coordinates the bulk power transactions, examines what plants must be dispatched to avoid technical system problems or undue economic costs, and accounts for system power losses. It also projects demand requirements in order to determine how much generating capacity will be needed and when. These projections may be done hourly, daily, weekly, or at longer intervals.

One electrical operating entity (power pool, electric utility, State authority, and/or Federal utility) within a group of interconnected electrical systems takes responsibility for maintaining system frequency for that electrical geographic area, monitors the load, and ensures generation availability to meet load requirements. Some control centers within these control areas are highly computerized, automatically loading the generating facilities as needed and maintaining the system at the correct operating frequency. This is important because deviations in the scheduled power flows or from the standard system frequency can automatically cause compensating changes in the output at the generating plants. These deviations can mean there has been a loss or gain of a customer load, a plant or line has suffered a forced outage, or some plant or line has been returned to the system. Any of these changes can require some review or action by these control centers.

Stabilizing system frequency is made easier by coordination with other electric systems and by drawing from a larger base of on-line capability. Load changes are absorbed by all the electrical systems, and many of the increasing and decreasing load changes cancel out or offset each other, so that the effect on the entire interconnected electrical system is less than it would be on an isolated electric utility. Also, this integrated system frees each generating unit from the necessity to make continual large changes in production levels.

## **Integrating Nonutility Generators with the Bulk Electric System**

Nonutility generation sources continue to be a growing portion of the U.S. electrical generation capacity. This role of NUGs reflects the changing structure of the electric supply system.

### ***Integrating Nonutility Generators***

NUGs present a challenge to the operators of the power grids because of the increasing numbers and their growing contribution to wholesale generation. Matching customer load and generation for both daily operations and future planning activities is becoming increasingly complex with the growing NUG role and increasing use of the transmission system. Electrical reliability concerns and the proper integration of NUGs into the supply system have become important issues.

The proper integration of NUGs into the electrical operations of interconnection and dispatching generation can be regarded as engineering problems for which technical solutions are available. However, there are institutional issues associated with the responsibility for serving customers and control of the electrical system. The increasing role of NUGs has altered the traditional view of participants in the electrical supply.

Utilities have three basic concerns involving the integration of NUGs with the bulk power system, relating primarily to the relationships of the NUGs, utilities, and customers:

- Utilities, with the principal responsibility to operate the system, do not always have full operating control over the NUGs.
- The forces that drive NUG development and operation do not necessarily coincide with the obligations of the utilities to serve customer demands.
- The fulfillment of NUG development plans to support the future generation requirements of the system are not controlled by the utilities, which are obligated to provide sufficient capacity.

The investor-owned utility obligation to serve is part of what was once called the "regulatory compact," which tied the utility exclusivity to a service territory franchise and requires that the rate of return and prices be set by a regulatory body. However, the obligation of NUGs to provide power tends to be contractual. This contractual obligation (power sales contract) must be satisfied to provide an adequate return on investment and to service debt.

The perspectives of some utility industry organizations and NUG participants on these obligations may differ. Some of these differences can be attributed to positions of the organizations in the market, with respect to their cost structures and existing capacity.

Some utilities welcome the opportunity for potential cost savings and diversity of supply options offered by NUGs, others are more concerned about operations and overall system reliability.

In response to such concerns, the North American Electric Reliability Council (NERC), which the utility industry charged to oversee the reliability of the bulk electric supply, has established guidelines on the minimum operating considerations that all utility and nonutility generators must follow to ensure the continued reliability of the system.<sup>18</sup>

### ***Impact of Nonutility Generation on the Supply System***

The electric utility industry and nonutility industry have worked together to safely and reliably interconnect NUGs. Many utilities are increasingly relying on NUG power as an important source of power. Several factors which utilities may not control can influence the operation of the overall system. The overall level of increase in NUG capacity is just one element. The size of individual facilities has a direct bearing on the potential system impacts; small facilities are less likely to have the same impacts as large ones. At the same time, the locations of individual projects, even small ones, can be critical. Where a facility is sited can affect transmission line loadings and substation equipment operation. Similarly, the timing of power

production from a NUG facility can affect the balance of power flows on the system. Moreover, the availability and reliability of NUG power can influence the operation of the system and the requirements for reserve capacity.

The electrical supply system is operated within closely watched tolerances and can require complex and real-time balancing of generation and transmission facilities with fluctuating demand. The substantial interrelationships of all the system components--utility and nonutility--suggest that generation capacity that falls outside the direct control of system operators increases their operational and planning challenges, and may affect system reliability. The extent to which operation, size, location, timing, availability and reliability of NUG power production can be coordinated with system operators will determine the impacts of NUG integration on the bulk electricity supply system.

Technically, all of these factors exert both positive and negative influences on the electrical system, depending on site-specific conditions and timing of actions. For example, a NUG facility could be located specifically to help a utility avoid a transmission or distribution bottleneck. Proper integration of NUGs into the daily operational control and management of the electrical power grid is critical for capturing the benefits and minimizing the disadvantages for all entities connected to the grid.

<sup>18</sup> North American Electric Reliability Council, *Integrating Nonutility Generators* (Princeton, New Jersey, January 1992). The specific guidelines now address both planning and operating considerations, and apply to all utility and nonutility sources. The guidelines address a range of needs, from specific design issues, to information needs, and data exchange requirements. The guidelines also cover how the generation sources would be brought on- and off-line during routine and emergency conditions.

# Appendix D

## Technical Notes

# Appendix D

## Technical Notes

### Sources of Data

The data sources used to produce this publication include selected items from the following Federal Energy Regulatory Commission (FERC), Energy Information Administration (EIA), and Rural Utilities Service Administration (RUS) annual data collection forms:

- Form EIA-412, "Annual Report of Public Electric Utilities"
- Form EIA-861, "Annual Electric Utility Report"
- Form FE-781R, "Annual Report of International Electrical Export/Import Data"
- FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others"
- FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees"
- RUS Form 7, "Financial and Statistical Reports - Electric Distribution Borrowers"
- RUS Form 12a through 12i, "Electric Power Supply Borrowers," and RUS Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities"

Completion of these forms by electric utilities is mandatory. Individual forms are completed by all U.S. utilities meeting specific ownership and size criteria. Sampling methods are not used as part of these surveys except for minimum threshold reporting; all qualifying utilities (that is, all utilities satisfying reporting criteria) are required to report annually.

Other 1996 data collected on these forms are also published by EIA and RUS in the following reports: *Financial Statistics of Selected Investor-Owned Electric Utilities 1996* (DOE/EIA-0437)/1, *Financial Statistics of Selected Publicly Owned Electric Utilities 1996* (DOE/EIA-0437)/2, and *Annual Report of Energy Purchased by RUS Borrowers* (REA).

### ***Form EIA-412, "Annual Report of Public Electric Utilities"***

#### *Summary of Primary Purpose.*

Form EIA-412 is used to collect detailed accounting, financial, and operating data annually from publicly owned electric utilities in the United States. For the fiscal or calendar year that ended December 31, 1996, new criteria were used to select the reporting respondents for this form. Publicly owned electric utilities engaged in the generation, transmission, or distribution of electricity that had 120 million kilowatthours of sales to ultimate consumers or 120 million kilowatthours of sales for resale for the 2 previous years as reported on Form EIA-861, "Annual Electric Utility Report," must submit Form EIA-412.

#### *Instrument and Design History.*

Federal Power Commission (FPC) Form 1M was implemented as a mandatory survey by the FPC in 1961. It became the responsibility of the EIA in October 1977 when the FPC was merged into the DOE. Effective January 1980, the FPC Form 1M was superseded by Form EIA-412, also a mandatory survey, used to collect the same data as those previously reported on FPC Form 1M.

### **Data Processing**

The processing of data reported on FERC Form 1, Form EIA-412, and Form EIA-861 is the responsibility of the Electric Power Division of the Office of Coal, Nuclear, Electric and Alternate Fuels. The normal processing of FERC Form 1-F is the responsibility of the FERC. Automated systems are used to edit data from the surveys, using deterministic and statistical checks. When these data have passed the editing process, they are aggregated into a master file, which is used as input to this publication's data base.

## **Form EIA-861, "Annual Electric Utility Report"**

### *Summary of Primary Purpose.*

Form EIA-861 is a census of electric utilities in the United States. The mandatory survey is used to collect information on power production and sales data from approximately 3,195 electric utilities. The data collected are used to maintain and update the EIA electric utility frame data base. This data base supports queries from the Executive Branch, Congress, other public agencies, and the general public. Summary data from Form EIA-861 are also contained in the *Electric Power Monthly*, the *Electric Sales and Revenues 1996*, the *Financial Statistics of Selected Investor-Owned Electric Utilities 1996*, and the *Financial Statistics of Selected Publicly Owned Electric Utilities 1996*. These reports present totals for electric utilities on a national level, by State, and by ownership type.

### *Instrument and Design History.*

Form EIA-861 was implemented in January 1985 to collect data as of the end of 1984. The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data. Detailed comparisons and descriptions of conceptual problems affecting the quality of the data are discussed in the report, *An Assessment of the Quality of Selected EIA Data Series: Electric Power Data*.

## **Form FE-781R, "Annual Report of International Electrical Export/Import Data"**

### *Summary of Primary Purpose.*

Form FE-781R is used to collect on an annual basis, monthly international electricity trade information on the gross amounts of electrical energy imports and exports and the costs and revenues associated with these transactions. The use of the format contained in Form FE-781R is optional for reporting purposes; however, submission of the data is mandatory

### *Instrument and Design History.*

The authority to issue presidential permits pursuant to Executive Order Number 10485 was transferred to the Secretary of Energy by Executive Order Number 12038 (43 FR 4957 February 7, 1978). This responsibility was delegated by the Secretary to the Economic Regulatory Administration (DOE Delegation Order Number 0204-04, October 1, 1977). The authority was redelegated (DOE Delegation Order Number 127) to the Office of Fuels Programs, the Office of Fossil Energy (54 FR 11436 March 20, 1989). The survey universe is defined under Title 10 of the Code of Federal Regulations, Sections 205.308 and 205.325 to include all public utilities or other entities subject to the Department of Energy jurisdiction under Part II of the Federal Power Act, engaged in the export of electrical energy across the international borders of the

United States with Canada and Mexico, or, who own the physical facilities, which are used to transmit power across the international border.

### *Data Processing.*

Form FE-781R is mailed to the respondents to collect annually the monthly data for the preceding calendar year. The completed forms are to be returned to the DOE by February 15. The receipts are manually edited and the data used for the Presidential Permit Program are entered into a machine readable format.

## **FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others"**

### *Summary of Primary Purpose.*

The Federal Energy Regulatory Commission (FERC) Form 1 is used to collect detailed accounting, financial, and operating data annually from "major" investor-owned electric utilities having, in each of the last 3 consecutive years, sales or transmission service that exceeds any one of the following: 1 billion kilowatthours of total sales, 100 thousand kilowatthours of sales for resale, 500 thousand kilowatthours of gross interchange out, or 500 thousand kilowatthours of wheeling for others (deliveries plus losses). The FERC Form 1-F is used to collect detailed accounting, financial, and operating data annually from "minor" investor-owned electric utilities that fall below the major category. For the year 1996, jurisdictional filings of the FERC Form 1 and 1-F totaled 212; though not all can be considered traditional electric utilities. See Table B1 (Appendix B) for those that qualified in 1996.

### *Instrument and Design History.*

FERC Form 1 was implemented in 1935 by the Federal Power Commission (FPC). In October 1977, it became the responsibility of the EIA to publish energy data when the FPC was merged into the Department of Energy (DOE). This mandatory report is prepared in accordance with the FERC's Uniform System of Accounts for private utilities and licensees. In 1990, the wholesale trade schedules were modified. The Summary of Interchange schedule was absorbed by the Purchased Power Schedule and the Transmission For and By Others schedule was changed from a narrative format into two separate tabular collection schedules. In addition to these schedule changes, the statistical classifications covering the data filed on these schedules were adjusted.

### *Uniformity of Treatment.*

The uniformity of treatment accorded the utilities' statements in this report will generally permit ready comparison of items among the utilities included in the compilations. These statements were filed by all "major" investor-owned electric utilities subject to the FERC accounting jurisdiction.

The Uniform System of Accounts prescribed for use by electric utilities under the FERC's jurisdiction was prepared in cooperation with the National Association of Regulatory Utility Commissioners.<sup>19</sup> In all material respects, the Uniform System of Accounts conforms with the Association's approved system adopted by certain State commissions. The "major" investor-owned electric utilities are required to follow the Uniform System of Accounts. In the presentation of individual utility data, the utilities are grouped according to the survey form and the class of ownership to which the utility belongs. The 504 publicly owned electric utilities that filed the EIA-412 in 1996 are requested to follow the Uniform System of Accounts when making their filings.

No attempt has been made to consolidate (in the technical accounting sense) the accounts of the utilities included in the summary statement of this report. The combined totals represent the arithmetic sum of accounts as reported by the individual utilities. Consequently, duplications exist to a limited extent in the composite totals shown in several statements. Therefore, as a result of mergers, consolidations, and sales of properties to public authorities, as well as the introduction of new utilities, the dollar and quantity figures presented in the report will not be representative of exactly the same properties from year to year.

### ***FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees"***

#### *Summary of Primary Purpose.*

FERC Form 1-F is used to collect limited accounting, financial, and operating data annually from investor-owned electric utilities that are not classified as "major," and had total sales in each of the last 3 consecutive years of 10 million kilowatthours or more.

#### *Instrument and Design History.*

FERC Form 1-F was implemented by the FPC regulations under the authority of the Federal Power Act as FPC Form 1-F for the year 1961 and thereafter. In October 1977, the FPC was merged into the DOE. This mandatory report is prepared in accordance with the FERC's Uniform System of Accounts for Private Utilities and Licensees.

### ***Publication--FERC Form 1 and Form EIA-412***

Data on plant construction cost, production expenses, generating equipment characteristics, and other relevant operating data are no longer published.

Financial data can be found in the *Financial Statistics of Selected Investor-Owned Electric Utilities 1996* and *Financial Statistics of Selected Publicly Owned Electric Utilities 1996*. These data include the following: income and earnings, taxes, depreciation and amortization, distribution of salaries and wages, electric utility operating revenues, electric utility operation and maintenance expenses, and generating plant statistics. Planned construction data, year-end balance sheets, and general corporate information are also included.

### ***Information Collected on FERC Form 1, Form EIA-412, and Form***

EIA-861

Reported data selected from FERC Form 1 include sales for resale, purchased power, exchanges, and wheeling, while the reported data selected from Form EIA-412 include only sales for resale and purchased power.

"Electric Energy Account Summary data" for the municipals, cooperatives, Federal power marketing administrations, and the Tennessee Valley Authority were summarized from Form EIA-861. Form EIA-861 is used to collect information for EIA on the statistics of electric utilities and their generation, transmission and distribution of electric energy in the United States, its territories, or Puerto Rico. Form EIA-861 is mandatory under Public Law 93-275, the Federal Energy Administration Act of 1974.

### ***Rural Utilities Service (USDA) Cooperative Utilities***

In an effort to broaden the coverage in this report of the electric utility industry, information has been included from the Cooperative Borrowers of the Rural Utilities Service (RUS). These data are based on financial and statistical information submitted to the RUS in 1996.

The operating data collected by the RUS furnish information needed for checking the security of government loans, the preparation of estimates used in forecasting expenses for future loans, and allow the RUS to fulfill its reporting obligations. The reports prepared by the cooperative utilities must accurately

<sup>19</sup> The National Association of Regulatory Utility Commissioners includes members of the railroad, public utilities, and public service commissions of the 50 States, the District of Columbia, the Commonwealth of Puerto Rico, and the territory of the Virgin Islands. The following Federal regulatory agencies also were included: the Interstate Commerce Commission, the Federal Energy Regulatory Commission, the Federal Communication Commission, and the Securities and Exchange Commission.

reflect the financial data as shown by their books of account.

### *Confidentiality of the Data.*

The data collected on the forms used for input to this report are not confidential.

## **Quality of Data**

The Office of Coal, Nuclear, Electric and Alternate Fuels is responsible for routine data improvements and quality-assurance activities in accordance with standards established by EIA. These standards are the measuring rod necessary for quality statistics. Data-improvement efforts include follow-up on nonrespondents, verification of data-keyed input by automatic computerized methods, and editing by subject-matter specialists.

Completed forms received by the Office of Coal, Nuclear, Electric and Alternate Fuels are sorted, screened for completion of reported information, and keyed onto computer tapes for storage and transfer to data bases on random access storage devices for computer processing. The information coded on the computer tapes is spot-checked against the data reported on the forms to certify accuracy of the tapes. Computerized respondent data files are checked to identify those who fail to respond to the survey. By law, nonrespondents may be fined or otherwise penalized for not filing an EIA data form as prescribed in the instructions. Before invoking the law, EIA tries to obtain the required information by encouraging cooperation of nonrespondents.

The individual utility identification codes for new and existing entities are edited prior to being sent for data entry. Additional edit checks of these data are performed through computer programs. The program edits include both deterministic checks, in which records are checked for the presence of data in required fields, and statistical checks, in which the data are checked against a range of values based on historical data values and for logical or mathematical consistency with data elements reported in the form. Discrepancies arising as a result of these checks are resolved either by the processing office or by a telephone call to the company concerned.

### **Data Validation Procedures**

The methodology used to develop this report is based on procedures and techniques routinely employed in data requirement reviews and data validation projects conducted by and for EIA. The four-step process used consists of: (1) identifying patterns of respondent misreporting and inconsistencies in reporting between respondents; (2) analyzing each problem identified to

develop probable causes; (3) correcting the identified problems; and (4) modifying the forms and/or instructions to eliminate or minimize future occurrences. The objective of the process is to make improvements that will:

- Improve the readability, accuracy, and meaningfulness of the data collected on wholesale electricity trade
- Reduce respondent burden by means of clarifying instructions, simplifying form layout, and eliminating unnecessary calculations
- Effect data standardization among the various forms used to collect wholesale electricity trade data
- Facilitate the computerization of wholesale electricity trade data to be collected in the future.

A variety of methods were used to identify reporting problems including:

- Manual pre-edit of FERC Form 1 and Form EIA-412 to identify nonstandard responses that could not be computerized as submitted by the respondent
- Manual review of selected forms to characterize patterns of reporting and misreporting and the type of respondents responsible
- Automated statistical reports (such as frequency counts) summarizing respondent reporting regarding individual data items
- Automated interform data validation to identify inconsistencies between aggregate level data reported by a respondent on Form EIA-861 and FERC Form 1
- Automated intraform data validation to identify reporting inconsistencies (such as, total does not equal the sum of the components)
- Automated interform data validation to identify inconsistencies between respondents reporting the same transaction (such as, the buyer and the seller of power reporting different quantities of energy delivered and received)
- Follow-up telephone calls are made to respondents (excluding those who filed FERC Forms) regarding confusing and/or inaccurate entries. Questions on the accuracy of filings made to the FERC are handled at the discretion of FERC staff.

The causes of misreporting and inconsistent reporting were identified principally by studying in detail the form layouts and instructions, and identifying patterns and trends in misreporting among all respondents. Considerable judgment was necessary in developing probable causes since all respondents could not be systematically contacted regarding errors. As an alternative, explanatory footnotes found in the completed forms, supplementary pages, and manual checks were used to confirm and validate the data. Once probable causes were identified, modification of the forms was straightforward.



## Data Edits

The data used for this publication are limited to those reported by respondent utilities. The following edit checks were used to identify missing or inaccurate data from the information that was initially reported by the respondent utilities.

- Energy--Sales for Resale and Purchased Power
  - No single transaction could exceed 4,380 million kilowatthours.
  - If sales or purchase transactions were reported, an energy receipt or delivery was required.
  - Reported totals or subtotals had to equal the sum of energy transactions.
- Energy--Interchanges (Exchanges)
  - No single transaction could exceed 4,380 million kilowatthours.
  - If interchange transactions were reported, an energy receipt or delivery was required.
  - Net energy received for a transaction had to equal total energy received minus energy delivered.
  - Reported totals or subtotals had to equal the sum of energy transactions.
- Revenue--Sales for Resale
  - Total revenue for a transaction had to equal the sum of reported revenue-demand, revenue-energy, and revenue-other.
  - Total revenue for a transaction divided by the kilowatthours sold for resale had to be in the range of 0.5 to 20 cents per kilowatthour.
  - Reported revenue totals or subtotals had to equal the sum of revenue transactions.
- Cost--Purchased Power
  - Total cost for a transaction had to equal the sum of demand, energy, and other costs.
  - Total cost of a transaction divided by kilowatthours purchased had to be in the range of 0.5 to 20 cents per kilowatthour.
  - Reported cost totals or subtotals had to equal the sum of cost transactions.
- Settlement--Interchanged Energy (Exchanges)
  - For transactions involving monetary settlement, the settlement amount divided by net kilowatthours received or delivered was required to be in the range of 0.5 to 20 cents per kilowatthour.
  - For settlement transactions involving monetary settlement, settlement amount was required to be positive if more energy was received than delivered; negative if more energy was delivered than received.
  - Reported totals and subtotals had to equal the sum of settlement transactions.

## Adjustments

Since the Federal forms used to collect electricity trade data are essentially accounting forms, adjustment data are routinely provided so that submitted data will be consistent with the accounting systems of the utilities. Many respondents include adjustments, particularly those related to transactions occurring in the reporting year, as a component of the related transaction. However, adjustments to transactions occurring in previous years are aggregated with current year transactions or are listed separately (that is, rebates, overcharges, reclassifications, fuel cost adjustments, etc.).

### **Sales for Resale and Purchased Power**

Sales for resale data are collected on FERC Form 1, Form EIA-412, RUS Form 7, and RUS Form 12. The primary sources of this information are FERC Form 1 and a few of the Form EIA-412's completed by Federal and State agencies. These respondents account for most of the wholesale electricity trade in the United States. The detailed data on sales for resale are not keyed into a machine-readable format by the RUS; therefore computer matching was not done.

Since sales for resale on Form EIA-412 is on a fiscal-year basis as opposed to calendar year, the Form EIA-412 data are not consistent with data collected on the other wholesale electricity trade schedules. Also wholesale electricity trade sales cannot be aggregated for all Form EIA-412 respondents because the respondents use different fiscal years. This is also true for the purchased power data. In 1989, the statistical classifications of the Form EIA-412 were modified to gather information on the types of electrical power and energy purchased and sold. The 1990 data reflect the collection of data using the enlarged statistical classification groupings.

The RUS Form 12, unlike FERC Form 1 and Form EIA-412, is not used to collect sales according to statistical classification (that is, firm, dump, and other power). The RUS does not process the sales for resale data reported on the RUS Forms 7 and 12. As such, cross-checking between buyers and sellers is less comprehensive. It also should be noted that Form EIA-412 was used to collect statistical classification data for both sales and purchased energy in 1996, while the RUS did not collect statistical classification data for either.

The purchased power schedules on Form EIA-412 and RUS Forms 7 and 12 does not include interchange (exchange) transactions. Form EIA-412 respondents are asked to report exchanges on a gross basis on the Energy Account Balance schedule. The RUS Forms 7 and 12 do not specifically address interchange (exchanges) transactions, but respondents are to report transactions on a net basis, if there is a cash payment.

## **Interchange (Exchange)**

Both purchase and interchange costs fall under the Uniform System of Accounts No. 555, and were reported on two different schedules until 1990. In 1990, the Summary of Interchange Schedule was deleted from the FERC Form 1 and the information collected on that schedule were shifted to the Purchased Power Schedule. The FERC has determined, for their regulatory accounting purposes, that the term, "interchange," means energy that is only exchanged in kind. Historically, however, "interchange" has been used by the industry to mean all energy transfers between utilities (sales, purchases, exchanges, and wheeling) and it has resulted in inconsistent reporting.

## **Transmission For Others and By Others (Wheeling)**

Detailed data on the Transmission For or By Others are collected only on FERC Form 1. Before 1990, respondents provided in a narrative format six basic elements of information for each wheeling transaction:

- Name of company and description of service
- Points of origin and termination of service
- Megawatthours received and delivered
- Monetary settlement
- Nonmonetary settlement
- Other explanations needed to describe the transactions.

The FERC Form 1 was modified for the 1990 collection year. The narrative schedule was changed to two separate tabular formats. The Transmission For Others schedule now collects additional information on: payments made by, energy received from; energy delivered to; statistical classification; FERC rate schedule; disaggregation of monetary settlement into demand, energy, other, and total; and points of origin, termination of service, and nonmonetary settlement were all deleted. Transmission By Others now collects information on name of company; megawatthours received and delivered; and expenses for transmission of electricity by others (e.g., demand, energy, other, and total).

## **Difference between Publication Methodologies**

The Federal Energy Regulatory Commission modified the FERC Form 1 in 1990 in order to handle better their responsibilities under the Federal Power Act. New information was requested that included statistical classification categories which collected data on power and energy transactions based on the original contractual terms and conditions. Because of this new information, the firm, nonfirm, and miscellaneous publication categories used in prior years were adjusted to handle these new classifications.

In prior publications, firm trade was defined as any transaction in which the charges had to include a demand charge. Firm trade data were then separated into two groups. The first group included transactions with demand charges where no quantities of energy were delivered or received (possible under "take or pay contracts"), and the second included quantities of energy that were traded with an "Energy," and sometimes, "Other" charge. (The "Other" charge in the firm category covers associated payments made on utility transactions for expenses associated with operating and/or renting physical facilities such as transmission lines and substations).

The differences between nonfirm electricity trade and the firm categories is that no demand charges are involved in the nonfirm transactions. The energy charge plus any "Other" charges associated with those transactions represented the value of these nonfirm transactions. The last grouping, "Other," includes transactions which did not include a demand or energy charge. (The filing electric utilities usually did not provide descriptive explanations.) However, from the footnotes provided and the account descriptions, data in this category do include: purchasing or maintaining operating reserve expenses; stability and reliability standards expenses; transmission line and other facility rentals; and other system operating charges.<sup>20</sup>

For this publication, the revised FERC classifications were used for inputs which helped define the firm, economy, and other electricity trade categories. Form redesigns implemented in reporting year 1990 for both FERC Form 1 and Form EIA-412 permitted respondent reported data to be used to differentiate between firm and nonfirm power trades.

The following list shows the type-of-trade categories reported by the FERC Form 1 and the Form EIA-412 respondents.

- FERC Form 1
  - Requirements (RQ)
  - Long-Term (LF)
  - Intermediate Firm (IF)
  - Short-Term Firm (SF)

<sup>20</sup> FERC Form 1 provides summary totals for electric operation and maintenance expenses. Pages 320-323 of FERC Form 1, under the schedule "Electric Operation and Maintenance Expenses," include information on power production, transmission, and distribution expenses (Uniform System of Accounts 500 to 935). These summary data are reported in the EIA publication, *Financial Statistics of Selected Investor-Owned Electric Utilities*, DOE/EIA-0437(94). This information cannot be linked to the individual transactions.

- Long-Term
- Intermediate Firm (IF)
- Short-Term Firm (SF)
- Long-Term Unit (LU)
- Intermediate Unit (IU)
- Exchange Power (EX)
- Other Service (OS)
- Adjustments (AD)
- Form EIA-412
  - Firm Power (FP)
  - Unit Power (UP)
  - Economy Power (EP)
  - Dump Power (DP)
  - Maintenance/Emergency Power (ME)
  - Operating Reserve (OR)
  - Other Capacity/Energy (OT).

Appendix A provides the FERC Form 1 definitions found on pages 310 and 326. Form EIA-412 definitions are found on Schedules V and VII of the form.

Like previous years, 1996 transactions without energy receipts or deliveries but with demand charges are classified as firm, "demand charge only" trade. FERC Form 1 and Form EIA-412 respondents do not always report type of trade data, which results in missing data. Likewise, data is missing for cooperatives, since they are not required to report the type-of-trade on the Rural Utilities Service (RUS) Forms RUS-7 and RUS-12. Imputations for missing type-of-trade data are performed according to the following procedures:

- Purchased Power. If the respondent utility (the purchasing utility) reported no net generation on the 1996 Form EIA-861, then the trade is classified as firm. Otherwise the trade is classified as economy.

## **Data Revisions**

The foregoing edits identified data errors. Data inaccuracies resulting from transcription and typographical errors, reporting in the wrong units (for example, kilowatthours instead of megawatthours) and arithmetic errors were corrected after discussions with respondents. Many suspected data errors were found to be correct as reported. Explanations provided by respondents included:

- The transaction was an energy or monetary adjustment to information previously reported. Adjustments reflected settlement of contract disputes, reimbursement of overcharges, or accounting errors and often were one-time bookkeeping corrections.
- The transaction involved large demand charges, but a small amount of energy was delivered.

- The transaction was a nonstandard operating condition such as loop and inadvertent energy flow, emergency power deliveries, or sale of energy under a purchase contract.
- The transaction was for access rights or the lease of equipment used in the sale or purchase of energy.
- The transaction was between two associated utilities or a utility and a power pool reporting internal energy, revenue, or cost accounting practices (for example, allocations).

## **Consistency Checks**

In addition to edit checks, data consistency checks were performed to improve the quality of the data presented in this publication. The consistency checks involved comparing, when possible, Sales for Resale data (revenue and energy) reported by one respondent with the purchased power data (cost and energy) reported by the respective buyers of the energy. Discrepancies of more than 10 percent were discussed with both the selling and the buying utilities to determine if a reporting error had been made. A similar procedure was used to confirm data inconsistencies between utilities that interchanged energy.

Consistency checks identified data errors, but discussions with respondents determined that most of the data were correct as reported. Reasons provided included:

- A sale or purchase by one utility was considered an interchange by the other utility in the transaction.
- Sales, purchases, and interchanges for noninvestor-owned utilities transacted late in the year can be reported in the year in which the transaction occurred or in the following year in which they are booked.
- Data submitted by a utility can cover different reporting periods depending upon the requirements of the forms; Form EIA-412 is a report of the utility's fiscal year while the other forms are for a calendar year.
- Different accounting and reporting procedures are used for recording loop and inadvertent energy flow, equipment and lease charges, service fees, fuel and other adjustments, and corrections to previously reported information.

## **Corrections**

Corrections were made to the data when missing or inaccurate data were provided by the respondent. Missing and inaccurate information identified during data automation and report preparation were discussed with respondents during the edit process either to correct the data supplied, or to confirm the values. In all cases, the forms were reviewed during the edit process with the respondent, and changes were made at the direction of the respondent.

## ***Explanatory Notes***

Data are reported on FERC Form 1 in accordance with the FERC's Uniform System of Accounts. Data are reported on the RUS Forms 7 and 12 in accordance with the RUS Uniform System of Accounts (based on the FERC System, with minor modifications). Copies of the *Uniform System of Accounts Prescribed for Both Private and Cooperative Borrowing Electric Utilities* are available from the U.S. Government Printing Office (GPO).

## **General Information**

### ***Use of the Glossary***

The terms in the glossary have been defined for general use. Restrictions on the definitions, as used in these data collection systems, are included in each definition when necessary to define the terms as they are used in this report.

## **Obtaining Copies of the Data**

This publication is available on a subscription basis from the Superintendent of Documents, U.S. Government Printing Office (GPO). Make check or money order payable to the Superintendent of Documents. You may send your order to the GPO or the National Technical Information Center (NTIC). GPO and NTIC prices are subject to change without advance notice.

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# Glossary

**Accounting System:** A system of recording accounting data for a utility or company; or of supplying accounting information for controlling, evaluating, planning, and decision-making.

**Administrative and General Expenses:** Expenses of an electric utility relating to the overall directions of its corporate offices and administrative affairs, as contrasted with expenses incurred for specialized functions. Examples include office salaries, office supplies, advertising, and other general expenses.

**Ampere:** The unit of measurement of electrical current produced in a circuit by 1 volt acting through a resistance of 1 ohm.

**Associated Company (Affiliated):** A company that is either directly or indirectly controlled by or owned by another firm or holding company.

**Automatic Generating Control:** The regulation of the power output of electric generators within a prescribed control area in response to changes in system frequency. The line loading or the relation of these to each other, so as to maintain the scheduled system frequency and/or establish interchange with other areas within predetermined limits.

**Available but not Needed Capability:** Net capability of main generating units that are operable but not considered necessary to carry load, and cannot be connected to load within 30 minutes.

**Average Water Conditions:** The amount and distribution of precipitation within a drainage basin, and the run-off conditions present, as determined by reviewing the area water supply records over a long period of time.

**Backup Power:** Electric energy supplied by a utility to replace power and energy lost during an unscheduled equipment outage.

**Base Bill:** A charge calculated by taking the rate from the appropriate electric rate schedule and applying it to the level of consumption.

**Base Rate:** A fixed amount charged each month for any of the classes of utility service provided to a customer.

**Baseload:** The minimum amount of electric power delivered or required over a given period of time at a steady state.

**Baseload Capacity:** The generating equipment normally operated to serve loads on a round-the-clock basis.

**Baseload Plant:** A plant, usually housing high-efficiency steam-electric units, which is normally operated to take all or part of the minimum load of a system, and which consequently produces electricity at an essentially constant rate and runs continuously. These units are operated to maximize system mechanical and thermal efficiency and minimize system operating costs.

**Black Start Capability:** The ability of a generating unit or station to go from a shutdown condition to an operating condition and start delivering power without assistance from the power system.

**Block Rate Schedule:** An electric rate schedule with a provision for charging a different unit cost for various increasing blocks of demand or energy. A reduced price is charged on succeeding blocks.

**Boiler:** A device for generating steam for power, processing, or heating purposes; or hot water for heating purposes or hot water supply. Heat from an external combustion source is transmitted to a fluid contained within the tubes found in the boiler shell. This fluid is delivered to an end-use at a desired pressure, temperature and quality.

**Boiler Fuel:** An energy source to produce heat that is transferred to the boiler vessel in order to generate steam or hot water. Fossil fuel is the primary energy source used to produce heat for boilers.

**Borderline Customer:** A customer located in the service area of one utility, but supplied by a neighboring utility through an arrangement between the utilities.

**Btu (British thermal unit):** A standard unit for measuring the quantity of heat energy equal to the quantity of heat required to raise the temperature of 1 pound of water by 1 degree Fahrenheit.

**Bulk Power System:** The interconnected electrical systems comprising generation and transmission facilities on which faults or disturbances can have a significant effect outside the local area.

**Bulk Power Transactions:** The wholesale sale, purchase, exchange of electricity, and/or transmission services (wheeling) among electric utilities. Bulk power transactions are used by electric utilities for many different aspects of electric utility operations, from maintaining load to reducing costs.

**Bus:** An electrical conductor which serves as a common connection for two or more electrical circuits.

**Capability:** The maximum load that a generating unit, generating station, or other electrical apparatus can carry under specified conditions for a given period of time without exceeding approved limits of temperature and stress.

**Capability Margin:** The difference between net system capability and system peak load. Nationally, it is the difference between aggregate net system capability and the sum of system peak loads without allowance for time diversity between the loads of the individual systems. Regional computations take into account the diversity between peak loads of the systems that coordinate operations. This margin indicates the capability available to provide for scheduled maintenance, emergency outages, system operating requirements, and unforeseen loads.

**Capability, Emergency Transfer:** The amount of power transfer allowed between areas or within an area when operating to meet NERC emergency criteria contingencies.

**Capability, Normal Transfer:** The amount of power transfer allowed between areas or within an area when operating to meet NERC normal criteria contingencies.

**Capacity:** The full-load continuous rating of a generator, prime mover, or other electric equipment under specified conditions as designated by the manufacturer. It is usually indicated on a nameplate attached to the equipment as the full-load rating.

**Capacity (Nameplate):** The amount of electric power delivered or required for which a generator, turbine, transformer, transmission circuit, station, or system is rated by the manufacturer.

**Capacity Charge:** An element in a two-part pricing method used in capacity transactions (energy charge is the other element). The capacity (demand) charge is assessed on the amount of capacity being purchased.

**Capacity Factor:** The ratio of the average load on the generating unit, generating plant, or other electrical apparatus during a specified period of time during its operations.

**Capacity Transaction:** The acquisition of a specified quantity of generating capacity from another utility for a specified period of time. The utility selling the capacity is obligated to make available to the buyer a specified quantity.

**Certificate:** A type of permit for public convenience and necessity issued by a utility commission, which authorizes a utility or regulated company to engage in business, construct facilities, provide some services, or abandon service.

**Circuit:** A conductor or a system of conductors through which electric current flows.

**Circuit-Mile:** The total length in miles of separate circuits regardless of the number of conductors used per circuit.

**Classes of Service:** Customers grouped by similar characteristics in order to be identified for the purpose of setting a common rate for electric service. Usually classified into groups identified as residential, commercial, industrial, governmental, or other similar groupings within each major classification.

**Code of Federal Regulations:** A compilation of the general and permanent rules of the executive departments and agencies of the Federal Government as published in the Federal Register. The Code is divided into 50 titles that represent broad areas subject to Federal regulation. Title 18 contains the FERC's regulations.

**Cogeneration:** The sequential or simultaneous process in which useful heat/steam is generated, used in a variety of process applications, and then directed into a turbine to generate electricity and/or mechanical work from the useful thermal energy still available for use.

**Cogenerator:** A generating facility that produces electricity and another form of useful thermal energy (such as heat or steam), used for industrial, commercial, heating, or cooling purposes.

**Combined Cycle:** A cogeneration technology in which additional electricity is produced sequentially from the otherwise lost waste heat exiting from one or more gas-fired turbines. The exiting heat flow is routed to an exhaust-fired conventional boiler or to a heat recovery steam generator for utilization by a steam turbine in the production of electricity. This process increases the efficiency of an electric generating system by turning the rejected heat into thermal steam rather than discharging it into the atmosphere.

**Commercial and Industrial:** Classes of service supplied to a similar grouping of customers. These customer groupings are usually subdivided into smaller segments by classifying such customers as commercial or industrial using the Federal Government's Office Of Management and Budget's Standard Industrial Classification Guide and/or a scale of energy usage as yardsticks; other customers are reclassified as commercial or industrial when their demands or annual use exceeds some specified limit. These limits are generally based on a utility's rate schedules, except for those customers who are supplied under special contracts or agreements calling for particular services.

**Commingling:** The mixing of one utility's generated supply of electric energy with another utility's generated supply within a transmission system.

**Commission:** An agency of government usually composed of three or more members charged with specific duties, functions, and responsibilities.

**Conductor:** Metal wires, cables, and bus-bar used for carrying electric current. Conductors may be solid or stranded, that is, built up by an assembly of smaller solid conductors.

**Connected Load:** The sum of the continuous ratings or the capacities for a system, part of a system, or a customer's electric power consuming apparatus.

**Contingency:** The unexpected event, usually the loss of one or more segments in the interconnected electrical power system.

**Cooperative (electric utility):** An electric utility legally established to be owned by and operated for the benefit of those using its services. The utility company will generate, transmit, and/or distribute supplies of electric energy to a specified area not being serviced by another utility. Such ventures are generally exempt from the Federal income tax laws. Most cooperatives have initially been financed by the U.S. Department of Agriculture's Rural Utilities Service Administration.

**Coordination Service:** Coordination service generally involves the sale, exchange, or transmission of electricity between two or more electric utilities that typically have sufficient generation and transmission capacity to supply their load requirements under normal conditions.

**Coordination Service Pricing:** The typical price components of a bulk power coordination sale are an energy charge, a capacity, or reservation charge, and an adder. The price for a particular sale may embody some or all of these components. The energy charge is made on a per-kilowatt-hour basis and is intended to recover the seller's system incremental variable costs of making a sale. Since the nonfuel expenses are usually hard to quantify and small relative to fuel expense, energy charges quoted are usually based on fuel cost. A capacity charge is set at a certain level per kilowatt and is normally paid whether or not energy is taken by the buyer. An adder is added to the energy charge to recover the hard-to-quantify nonfuel variable costs. There are three types of adders: percentage, fixed, and split-savings. A percentage adder increases the energy charge by a certain percentage. A fixed adder, adds a fixed amount per kilowatt-hour to the energy charge. Split-savings adders are used only in economy energy transactions. They split production cost savings between the seller and the buyer by adding one-half of the savings to the energy cost.

**Cost:** The amount paid to acquire resources such as plant and equipment, fuel, or labor services. Fixed costs in the electric utility industry are associated with resources that cannot be changed easily during a short time span (such as plant and equipment) and are independent of the level of generation. Variable costs are associated with resources that can vary during a given time period (such as fuel or labor services) and are directly related to the level of generation.

**Cost of Service:** A ratemaking concept used for the design and development of rate schedules to ensure that the filed rate schedules recover only the cost of

providing the electric service at issue. This concept attempts to correlate the utility's costs and revenue with the service provided to each of the various customer classes.

**Current:** A flow of electrons in an electrical conductor. The strength or rate of movement of the electricity is measured in amperes.

**Deliveries (Electric):** Energy generated by one system and delivered to another system through one or more transmission lines.

**Demand (Electric):** The rate at which electric energy is delivered to or by a system, part of a system, or piece of equipment, at a given instant or averaged over any designated period of time.

**Demand Charge:** That portion of the consumer's bill for electric service based on the consumer's maximum electric capacity usage and calculated based on the billing demand charges under the applicable rate schedule.

**Demand Charge Credit:** Compensation received by the buyer when the delivery terms of the contract cannot be met by the seller.

**Demand Interval:** The time period during which the flow of electricity is measured, usually in 15-, 30-, or 60-minute increments.

**Dependable Capacity:** The load-carrying ability of a station or system under adverse conditions for a specified period of time.

**Diesel-Electric Plant:** A generating station that uses diesel engines to drive its electric generators.

**Direct Current (DC):** An electric current that flows in a constant direction. The magnitude of the current does not vary or has a slight variation.

**Dispatching:** The operating control of an integrated electric system involving operations such as (1) the assignment of load to specific generating stations and other sources of supply to effect the most economical supply as the total or the significant area loads rise or fall; (2) the control of operations and maintenance of high-voltage lines, substations, and equipment; (3) the operation of principal tie lines and switching; (4) the scheduling of energy transactions with connecting electric utilities.

**Distribution system:** The portion of the transmission lines and facilities of an electric system off the bulk power system that is dedicated to delivering electric energy to an end-user.

**Disturbance:** Severe oscillations or severe step changes of current, voltage and/or frequency usually caused by faults.

**Disturbance (System):** An event resulting in widespread interruptions and characterized by one or more of the following phenomena: the loss of power system

stability: cascading outages of circuits; abnormal ranges of frequency or voltage or both.

**Diversity:** The electric utility system's load is made up of many individual loads that make demands upon the system usually at different times of the day. The individual loads within the customer classes follow similar usage patterns, but these classes of service place different demands upon the facilities and the system grid. The service requirements of one electrical system can differ greatly from another by time of day usage, facility usage, and/or demands placed upon the system grid.

**Diversity Exchange:** An exchange of capacity or energy, or both, between systems whose peak loads occur at different times.

**Diversity Factor:** The ratio of the sum of the non-coincident maximum demands for two or more loads to their coincident maximum demand for the same time period.

**Docket:** A formal record of a Federal Energy Regulatory Commission proceeding. These records are available for inspection and copying by the public. Each individual case proceeding is identified by an assigned number.

**DOE:** Department of Energy.

**Double-circuit Line:** A transmission line having two separate circuits. Since each carries three-phase power, at least six conductors, three per circuit, are required.

**Dual-Fired Unit:** A generating unit that can produce electricity using two or more input fuels. In some of these units only the primary fuel can be used continuously; the alternate fuel(s) can be used only as a start-up fuel or in emergencies.

**Dump Energy:** Energy generated in a hydroelectric plant by water that cannot be stored or conserved and which energy is in excess of the needs of the system producing the energy.

**Economy Energy:** Energy produced and supplied from a more economical source in one system, substituted for that being produced or capable of being produced by a less economical source in another system.

**Economy of Scale:** A proposition that relatively larger production facilities have lower unit costs than smaller facilities. Economy of scale may exist for any of the phases of operation: generation, transmission, or distribution.

**EIA:** The Energy Information Administration. An independent agency within the U.S. Department of Energy that develops surveys, collects energy data, and analyzes and models energy issues. The Agency must meet the requests of Congress, other elements within the Department of Energy, the Federal Energy Regulatory Commission, the Executive Branch, its own independent needs, and assist the general public,

or other interest groups, without taking a policy position.

**Electric Current:** The number of electrons per unit of time moving past a point in a conductor.

**Electric Energy:** The ability of an electric current to produce work, heat, light or other forms of energy. It is measured in kilowatthours.

**Electric Expenses:** The cost of labor, material, and expenses incurred in operating a facility's prime movers, generators, auxiliary apparatus, switching gear, and other electric equipment for each of the points where electricity enters the transmission or distribution grid.

**Electric Plant (Financial):** Assets comprising land, building, and equipment permanently employed.

**Electric Plant (Physical):** A facility containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

**Electric Power:** The rate at which electric energy is generated, transmitted, or consumed. Electric power is measured in watts or kilowatts.

**Electric Power Industry:** The public, private, and cooperative electric utility systems of the United States taken as a whole. This includes all electric systems serving the public: regulated investor-owned electric utility companies; Federal power projects; State, municipal, and other government-owned systems, including electric public utility districts; electric cooperatives, including generation and transmission entities (G & T's); jointly owned electric utility facilities, and electric utility facilities owned by a lessor and leased to an electric utility. Excluded from this list are the special purpose electric facilities or systems that do not offer service to the public.

**Electric Power System:** An individual electric power entity--a company, an electric cooperative, a public electric supply corporation like the Tennessee Valley Authority, a similar Federal department or agency like the Bonneville Power Administration, the Bureau of Reclamation or the Corps of Engineers, a municipally owned, electric department offering service to the public, or an electric public utility district (a "PUD"); also a jointly owned electric supply project such as the Keystone.

**Electric Rate:** The price set for a specified amount and type of electricity by class of service in an electric rate schedule or sales contract.

**Electric Rate Schedule:** A statement of the electric rate and the terms and conditions governing its application, including attendant contract terms and conditions that have been accepted by a regulatory body with appropriate oversight authority.

**Electric System Loss:** Total electric energy loss from all causes for a electric utility.



**Electric Utility:** A corporation, person, agency, authority, or other legal entity or instrumentality that owns and/or operates facilities within the United States, its territories, or Puerto Rico for the generation, transmission, distribution, or sale of electric energy, primarily for use by the public and files forms listed in the Code of Federal Regulations, Title 18, Part 141. Facilities that qualify as cogenerators or small power producers under the Public Utility Regulatory Policies Act of 1978 and exempt wholesale generators under the Energy Policy Act of 1992 are not considered electric utilities.

**Electrical System Energy Losses:** The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted for use.

**Electricity:** A form of energy generated by friction, induction, or chemical change that is caused by the presence and motion of elementary charged particles of which matter consists.

**Emergency:** The failure of an electric power system to generate or deliver electric power as normally intended, resulting in the cutoff or curtailment of service.

**Emergency Energy:** Electric energy provided for a limited duration, intended only for use during emergency conditions.

**Emergency, (Major):** A situation usually accompanied by abnormal frequency, abnormal voltage and/or equipment overloads which might seriously affect the reliability of the bulk power system.

**Emergency (System):** An emergency is considered to exist in an area if firm load may have to be shed because sufficient power or energy is unavailable in that area or in a portion of it after due allowance for purchases.

**Energy:** The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

**Energy Broker System:** Introduced into Florida by the Public Service Commission, the energy broker system is a system for exchanging information that allows utilities to efficiently exchange hourly quotations of prices at which each is willing to buy and sell electric energy. For the broker system to operate, utility systems must have in place bilateral agreements between all potential parties and must have transmission arrangements between all potential parties which allow the exchanges to take place.

**Energy Charge:** That portion of the charge for electric service based upon the electric energy (expressed in kilowatthours) consumed or billed.

**Energy Deliveries:** Energy generated by one electric utility system and delivered to another system through one or more transmission lines.

**Energy Loss (Power):** The difference between energy input and output as a result of transfer of energy between two points. The loss changed to the equivalent power rating is sometimes referred to as capacity loss.

**Energy Receipts:** Energy generated by one electric utility system and received by another system through one or more transmission lines.

**Energy Source:** The primary fuel or transfer medium that provides the heat/power that is converted to electricity through chemical, mechanical, or other means. Energy sources include coal, petroleum and petroleum products, gas, water, uranium, wind, sunlight, geothermal, and other sources.

**End-User:** The final consumer of electricity.

**Exchange Energy:** Electric energy received by an electric utility system usually in exchange for energy delivered to the other system at another time or place. Exchange energy is to be distinguished from a direct purchase or sale, although accumulated energy balances are sometimes settled in cash.

**Facilities Charge:** An amount to be paid by the customer in a lump sum, or periodically as reimbursement for facilities furnished. The charge may include operation and maintenance as well as fixed costs.

**Facility:** A location at which prime movers, electric generators, and/or equipment for converting mechanical, chemical, and/or nuclear energy into electric energy are situated. A facility may contain more than one type of prime mover. For cogenerators, the facility includes the industrial or commercial process.

**Failure or Hazard:** Any electric power supply equipment or facility failure or other event that, in the judgment of the reporting entity, constitutes a hazard to maintaining the continuity of the bulk electric power supply system such that a load reduction action may become necessary and a reportable outage may occur. The impact of this failure/hazard may require the imposition of a special operating procedure, the extended purchase of emergency power, and/or other bulk power system actions.

**Federal Energy Regulatory Commission (FERC):** The independent Federal regulatory agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification.

**Federal Power Act:** Enacted in 1920, and as amended in 1935, the Act consists of three parts. The first part incorporated the Federal Water Power Act

administered by the former Federal Power Commission, whose activities were confined almost entirely to licensing non-Federal hydroelectric projects. Parts II and III were added with the passage of the Public Utility Act. These parts extended the Act's jurisdiction to include regulating the interstate transmission of electrical energy and rates for its sale as wholesale electricity in interstate commerce. The Federal Energy Regulatory Commission is now charged with the administration of this law.

**Federal Power Commission:** The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

**Feeder Line:** An electrical line that extends radially from a distribution substation to supply electrical energy within an electric service area or sub-area.

**FERC:** The Federal Energy Regulatory Commission.

**FERC Guidelines:** A compilation of the Federal Energy Regulatory Commission's enabling statutes, procedural and program regulations, and orders, opinions and decisions.

**File Rate Schedule:** The rate for a particular electric service, including attendant contract terms and conditions, accepted for filing by a regulatory body with appropriate oversight authority.

**Filing:** Any written application, complaint, declaration, petition, protest, answer, motion, brief, exception, rate schedule, or other pleading, amendment to a pleading, document, or similar paper that is submitted to a utility commission.

**Final Order:** A final ruling by FERC that terminates an action, decides some matter litigated by the petitioning parties, operates to some right, or completely disposes of the subject matter.

**Firm Power:** Electric power intended to meet the load requirement of a utility's customers; there is no planned interruption of services with this type of sale. Utilities may sell capacity for a limited duration and time to other utilities and these types of contractual transactions are also referred to as firm power.

**Firm Service:** The commitment of generation and/or transmission service to a customer under a filed rate schedule to which the parties to the service anticipate no planned interruption. The allocation of the utility's resources may be system wide, or only for a named unit; the time of availability is usually prescribed as well.

**Fiscal Year:** A financial year based on a predetermined starting date. The Federal Government's

12-month financial year runs from October 1 through September 30.

**Force Majeure Clause:** An occurrence generally beyond the control of the buyer or seller in which relief is given by this clause to the parties involved in an agreement. This event, which results in nonperformance of terms in a contract, reliability standards, or operating agreements, will typically relieve a buyer or seller of liability for damages. Some financial or other compensation relief may be available, if additional terms or conditions are written into the contract concerning unexpected problems beyond the control of the parties.

**Forced Outage:** The shutdown of a generating unit, transmission line or other facility, for emergency reasons or a condition in which the generating equipment is unavailable for load because of unanticipated breakdown.

**Frame:** All units (i.e., electric utilities) that comprise the population of interest to a given survey. Sub-units may in some instances only be represented in groups, but complete coverage is maintained.

**Fuel Emergency:** An emergency that exists when supplies of fuels or hydroelectric storage for generation are at a level or estimated to be at a level that would threaten the reliability or adequacy of the bulk electric power supply. The following factors should be taken into account to determine that a fuel emergency exists: (1) Fuel stock or hydroelectric project water storage levels are 50 percent or less of normal for that particular time of the year and a continued downward trend in fuel stock or hydroelectric project water storage level are estimated; or (2) Unscheduled dispatch or emergency generation is causing an abnormal use of a particular fuel type, such that the future supply or stocks of that fuel could reach a level which threatens the reliability or adequacy of bulk electric power supplies.

**Full-Forced Outage:** The net capability of main generating units that are unavailable for load for emergency reasons.

**Gas-Turbine Plant:** A plant in which the prime mover is a gas turbine. A gas turbine consists typically of an axial-flow air compressor, one or more combustion chambers where liquid or gaseous fuel is burned and the hot gases are passed to the turbine; where the hot gases expand to drive the generator and then are used to run the compressor.

**Generally Accepted Accounting Principles (GAAP):** Defined as the conventions, rules, and procedures necessary to define accepted accounting practice at a particular time; includes both broad guidelines and relatively detailed practices and procedures.

**Generating Station:** A station which consists of electric generators and auxiliary equipment for converting mechanical, chemical or nuclear energy into electric energy.

**Generating Unit:** An electric generator together with its prime mover.

**Generation:** The process of producing electric energy by transforming other forms of energy; also, the amount of electric energy produced, expressed in kilowatthours.

**Generation (Gross):** The total amount of electric energy produced by the generating units in a generating station or stations, measured at the generator terminals.

**Generation (Net):** Gross generation less the electric energy consumed at the generating station for station use.

**Generation Rejection:** The process of deliberately removing preselected generation from a Power System in response to an abnormal condition in order to maintain the integrity of the system; sometimes also called generator dropping.

**Geothermal Energy:** Energy from the internal heat of the earth which may be residual heat, friction heat, or a result of radioactive decay. The heat is found in rocks and fluids at various depths and can be extracted by drilling and/or pumping.

**Geothermal Plant:** A plant in which the prime mover is a steam turbine. The turbine is driven either by steam produced from hot water or by natural steam that derives its energy from heat found in rocks or fluids at various depths beneath the surface of the earth. The energy is extracted by drilling and/or pumping.

**Gigawatt (GW):** One billion watts.

**Gigawatthour (GWh):** One billion watthours.

**Grid:** The layout of an electrical system.

**Gross Generation:** The total amount of electric energy produced by a generating station or stations, measured at the generator terminals.

**Gross Head:** A dam's maximum allowed vertical distance between the upstream's surface water (headwater) forebay elevation and the downstream's surface water (tailwater) elevation at the tail-race for reaction wheel dams or the elevation of the jet at impulse wheel dams during specified operation and water conditions.

**Head:** The product of the water's weight and a usable difference in elevation gives a measurement of the potential energy possessed by water.

**Holding Company:** A corporation (parent company) that directly or indirectly owns a majority of all of the voting securities of one or more companies located in the same, contiguous States, or operating independent integrated public utility systems in noncontiguous States. A holding company is so structured to bring companies that can best be operated as part of an integrated public utility system under one management.

Many States do not permit or authorize a registered utility company to acquire ownership or operation of an electric or gas utility company serving substantially the same territory. The Securities and Exchange Commission, as administrator of the Public Utility Holding Company Act of 1935, defines a holding company as "a company which...owns, controls...10 percent or more of the outstanding voting securities of a public utility company."

**Horsepower:** A unit for measuring the rate of work (or power) equivalent to 33,000 foot-pounds per minute or 746 watts.

**Hybrid Transmission Line:** A double-circuit line which has one alternating current circuit and one direct current circuit. The AC circuit usually serves local loads along the line.

**Hydraulic Head:** The distance between the respective elevations of the upstream's water surface (headwater) above and the downstream surface water (tailwater) below a hydroelectric power plant.

**Hydroelectric Energy:** The production of electricity from kinetic energy in flowing water.

**Hydroelectric Plant:** A plant in which the turbine generators are driven by falling water.

**Hydroelectric Plant Capacity:** This capacity figure is a function of fluid flow losses, hydraulic turbines, head, and water flow. The minimum net head limits the firm capacity of the plant.

**Hydroelectric Power:** The harnessing of flowing water to produce mechanical or electrical energy.

**Hydroelectric Project:** The complete development of a hydroelectric power site. This includes dams, reservoirs, transmission lines and accessories needed for the maintenance and operation of the powerhouse and any other hydroelectric plant support facilities.

**Impedance:** The opposition to power flow in an AC circuit. Also, applicable to any device that introduces such opposition, in the form of resistance, reactance, or both. The impedance of a circuit or device is measured as the ratio of voltage to current, where a sinusoidal voltage and current of the same frequency are used for the measurement; measured in ohms.

**Inadvertent Power Exchange:** An unintended power exchange among utilities that is either not previously agreed upon or in an amount different from the amount agreed upon.

**Incremental Energy Costs:** The additional cost of producing and/or transmitting electric energy above some previously determined base cost.

**Installed Nameplate Capacity:** The full-load continuous rating of a generator, prime mover, or other electrical equipment under specified conditions as designated by the manufacturer. Installed nameplate capacity is usually indicated on a nameplate attached

physically to the equipment. Installed station capacity does not include auxiliary or house units.

**Instantaneous Peak Demand:** The maximum demand at the instant of greatest load.

**Insulator:** A material that is a very poor conductor of electricity. The insulating material is usually a ceramic or fiberglass when used in the transmission line and is designed to support a conductor physically and to separate it electrically from other conductors and supporting material.

**Integrated Demand:** The summation of the continuously varying instantaneous demand averaged over a specified interval of time. The information is usually determined by examining a demand meter.

**Integrated Gasification-Combined Cycle Technology:** Coal, water, and oxygen are fed to a gasifier, which produces synthetic natural gas (syngas). This medium Btu gas is cleaned (particulates and sulfur compounds removed) and is fed to a gas turbine. The hot exhaust of the gas turbine and heat recovered from the gasification process are routed through a heat-recovery generator to produce steam, which drives a steam turbine to produce electricity.

**Interchange Energy:** Kilowatthours delivered to or received by one electric utility or pooling system from another. Settlement may be by payment, returned in kind at a later time or accumulated as energy balances until the end of the stated period.

**Interconnected System:** A system consisting of two or more individual power systems normally operating with connecting tie lines.

**Interconnection:** Two or more electric systems having a common transmission line that permits a flow of energy between them. The physical connection of the electric power transmission facilities allows for the sale or exchange of energy.

**Interdepartmental Sales:** Includes amounts charged by the electric department at tariff or other specified rates for electricity supplied by it to other utility departments.

**Interdepartmental Service (Electric):** Electricity supplied to departments of the electric utility company other than the electric generating department.

**Interlocking Directorates:** The holding of a significant position in management or a position on the corporate board of a utility, while simultaneously holding a comparable position with another utility, or with a firm doing business with the utility.

**Intermediate Load (Electric System):** The range from base load to a point between base load and peak. This point may be the midpoint, a percent of the peak load, or the load over a specified time period.

**Internal Combustion Plant:** A plant in which the prime mover is an internal combustion engine. An

internal combustion engine has one or more cylinders in which the process of combustion take place, converting energy released from the rapid burning of a fuel-air mixture into mechanical energy. Diesel or gas-fired engines are the principal types used in electric plants. The plant is usually operated during periods of high demand for electricity.

**Interruptible Power:** Power and usually the associated energy made available by one utility to another which is subject to curtailment or cessation of delivery by the supplier in accordance with a prior agreement with the other party or under specified conditions.

**Intervenor:** A person, institution, or organization admitted as a participant to a proceeding.

**Investor-Owned Electric Utility:** A class of utility whose stock is publicly traded and which is organized as a tax-paying business, usually financed by the sale of securities in the capital market. It is regulated and authorized to achieve an allowed rate of return.

**Island:** A portion of a power system, or several power systems which is (are) electrically separated from the main grid.

**Joint-Use Facility:** A multiple-purpose hydroelectric plant. An example is a dam that stores water for both flood control and power production.

**Jurisdictional Utilities:** Utilities regulated by public laws.

**Kilowatt (kW):** One thousand watts.

**Kilowatthour (kWh):** One thousand watthours.

**Line Loss:** Electric energy lost because of the transmission of electricity. Much of the loss is thermal in nature.

**Load:** The power provided to customers of a system. This may be further identified to more precisely indicate which portion of the system is being considered, (e.g., customer load, station auxiliary load, etc.).

**Load, Firm:** Power provided to customers that is continuously available on demand and which is subject to interruption only under extreme circumstances.

**Load, Interruptible:** Those loads that, by contract, can be interrupted in the event of a deficiency on the supplying system.

**Load (Electric):** The amount of electric power delivered or required at any specific point or points on a system. The requirement originates at the energy-consuming equipment of the customers.

**Load Curve:** The relationship of power supplied to the time of occurrence which illustrates the varying magnitude of the load during the period covered.

**Load Diversity:** The difference between the peak of coincident and noncoincident demands of two or more individual loads.

**Load Factor:** The ratio of the average load to peak load during a specified time interval.

**Load Following:** Regulation of the power output of electric generators within a prescribed area in response to changes in system frequency, tieline loading, or the relation of these to each other, so as to maintain the scheduled system frequency and/or the established interchange with other areas within predetermined limits.

**Load Leveling:** Any load control technique that dampens the cyclical daily load flows and increases baseload generation. Peak load pricing and time-of-day charges are two techniques that electric utilities use to reduce peak load and to maximize efficient generation of electricity.

**Load Loss (3 hours):** Any significant incident on an electric utility system which results in a continuous outage of 3 hours or longer to over 50,000 customers or more than one half of the total customers being served immediately prior to the incident, whichever is less.

**Load Management Technique:** Utility demand management practices directed at reducing the maximum kilowatt demand on an electric system, and/or modifying the coincident peak demand of one or more classes of service to better meet the utility system capability for a given hour, day, week, season, or year.

**Load Reduction Request:** The issuance of any public or private request to any customer or the general public to reduce the use of electricity for reasons of maintaining the continuity of service of the reporting entity's electric power supply system. Requests to a customer(s) served under provisions of an interruptible contract are not a reportable action unless the request is made for reasons of maintaining the continuity of service of the reporting entity's electric power supply.

**Load Relief:** Load reduction accomplished by voltage reduction and/or load shedding.

**Load Shedding:** Deliberate disconnection of customer load in response to an abnormal condition in order to maintain the integrity of the power system. Disconnection may be automatically or manually initiated. The routine use of load control equipment that reduces firm customer load is not considered to be a reportable action.

**Loop Flow:** The movement of electric power from generator to load by dividing along multiple parallel paths; it especially refers to power flow along an unintended path that loops away from the most direct geographic path, or contract path.

**Low Head:** Vertical difference of 100 feet or less in the upstream surface water elevation (headwater) and

the downstream surface water elevation (tailwater) at a dam.

**Maximum Demand:** The greatest of all demands of the load that has occurred within a specified period of time.

**Maximum Dependable Capacity, Net:** The gross electrical output measured at the output terminals of the turbine generator(s) during the most restrictive seasonal conditions, less the station service load.

**Median Streamflow:** The middle rate of flow of water past a given point for which there have been several greater and lesser rates of flow occurring during a specified period.

**Median Water Condition:** The middle precipitation and run-off condition for a distribution of water conditions that have happened over a long period time; usually determined by examining water supply records of the periods in question.

**Megawatt (MW):** One million watts.

**Megawatt-Electric (MW):** One million watts of electric capacity.

**Megawatthour (MWh):** One million watthours.

**Mill:** A monetary cost and billing unit used by utilities; it is equal to 1/1000 of the U.S. dollar (equivalent to 1/10 of 1 cent).

**Minimum Streamflow:** The minimum rate of flow of water past a given point during a specified period.

**Multiple Purpose Project:** The development of hydroelectric facilities to serve more than one function. Some of the uses include hydroelectric power, irrigation, water supply, water quality control, and/or fish and wildlife enhancement.

**Multiple Purpose Reservoir:** Stored water and its usage governed by advanced water resource conservation practices to achieve more than one water control objective. Some of the objectives include flood control, hydro-electric power development, irrigation, recreation usage, and wilderness protection.

**Municipality:** A city, county, district, or a political subdivision of a State competent under the laws thereof to carry on the business of its charter.

**National Association of Regulatory Utility Commissioners:** An affiliation of the public service commissioners to promote the uniform treatment of members of the railroad, public utilities, and public service commissions of the 50 States, the District of Columbia, the Commonwealth of Puerto Rico, and the territory of the Virgin Islands.

**Natural Streamflow:** The rate of flow of water past a given point of an uncontrolled stream, or regulated streamflow adjusted to eliminate the effects of reservoir storage or upstream diversions at a set time interval.

**Net Energy for Load:** Net generation of main generating units that are system-owned or system-operated plus energy receipts minus energy deliveries.

**Net Energy for System:** The net generation of a group of plants that are electrically interconnected and centrally controlled, plus system receipts of any electrical energy from outside the system minus any system energy delivered to other electrical systems.

**Net Generation:** Gross generation less plant use, measured at the high-voltage terminals of a station's step-up transformer. The energy required for pumping at pumped-storage plants is regarded as plant use and must be deducted from the gross generation.

**Net Head:** The gross head minus all hydraulic losses except those chargeable to the turbine.

**Net Summer Capability:** The steady hourly output which generating equipment is expected to supply to system load exclusive of auxiliary power as demonstrated by test at the time of summer peak demand.

**Net System Capability:** The generating station capability of a system at a stated period of time (usually at the time of the system's maximum load) plus capability available at such time from other sources through firm power contacts less firm power obligations at such time to other companies or systems.

**Net Winter Capability:** The steady hourly output which generating equipment is expected to supply to system load exclusive of auxiliary power as demonstrated by test at the time of winter peak demand.

**No-Load Loss:** Power and energy lost by an electric system when not operating under demand.

**Noncoincident Demand:** Sum of two or more demands on individual systems that do not occur in the same demand interval.

**Noncoincident Peak Load:** The sum of two or more peak loads on individual systems that do not occur in the same time interval. Meaningful only when considering loads within a limited period of time, such as a day, week, month, a heating or cooling season, and usually for not more than 1 year.

**Nonfirm Power:** Power or power-producing capacity supplied or available under a commitment having limited or no assured availability.

**Nonspinning Reserve:** The generating capacity not currently running, but capable of being connected to the bus and load within a specified time.

**Nonutility Generation:** Electric generation by end-users, or small power producers under the Public Utility Regulatory Policies Act of 1978, to supply electric power for industrial, commercial, or sales to electric utilities.

**Nonutility Power Producer:** An enterprise that has electric generating capacity and is not an electric utility. Nonutility power producers include qualifying

cogenerators, qualifying small power producers, and other nonutility generators (including independent power producers) without a designated franchised service area, and which are not otherwise required to file forms listed in the *Code of Federal Regulations*, Title 18, Part 141.

**North American Electric Reliability Council (NERC):** A council formed in 1968 by the electric utility industry to promote the reliability and adequacy of the bulk power supply in the electric utility systems of North America. NERC consists of ten regional reliability councils and encompasses essentially all the power systems of the contiguous United States, Canada, and some in Mexico. The data summarized by NERC regions in this publication are limited to that portion applicable to the United States, thereby excluding that portion of NERC data applicable to Canada and Mexico. The NERC Regions are:

- ASCC--Alaska System Coordination Council
- ECAR--East Central Area Reliability Coordination Agreement
- ERCOT--Electric Reliability Council of Texas
- MAIN--Mid-America Interconnected Network
- MAAC--Mid-Atlantic Area Council
- MAPP--Mid-Continent Area Power Pool
- NPCC--Northeast Power Coordinating Council
- SERC--Southeastern Electric Reliability Council
- SPP--Southwest Power Pool
- WSCC--Western Systems Coordinating Council

**Nuclear Power Plant:** A facility in which heat produced in a reactor by the fissioning of nuclear fuel is used to drive a steam turbine.

**Off-Peak:** Period of relatively low system demand. These periods often occur in daily, weekly, and seasonal patterns; these off-peak periods differ for each individual electric utility.

**Ohm:** The unit of measurement of electrical resistance. The resistance of a circuit in which a potential difference of 1 volt produces a current of 1 ampere.

**On-Peak:** Periods of relatively high system demand. These periods often occur in daily, weekly, and seasonal patterns; these on-peak periods differ for each individual electric utility.

**Operating Limit:** The maximum value of the most critical system operation parameter(s) which meets: precontingency criteria as determined by equipment loading capability and acceptable voltage conditions; transient performance criteria; and post contingency loading and voltage criteria.

**Order:** A ruling issued by a utility commission granting or denying an application in whole or in part. The order explains the basis for the decision, noting any dispute with the factual assertions of the applicant. Also applied to a final regulation of a utility commission.

**Other Generation:** Electricity originating from these sources: biomass, fuel cells, geothermal heat, solar power, waste, wind, and wood.

**Other Sector:** Electricity supplied to public street and highway lighting; other service to public authorities; service to railroads and railways; and interdepartmental service.

**Other Service to Public Authorities:** Electricity supplied to municipalities or divisions or agencies of State or Federal governments, under special contracts or agreements or service classifications applicable only to public authorities.

**Other Unavailable Capability:** Net capability of main generating units that are unavailable for load for reasons other than full-forced outage or scheduled maintenance. Legal restrictions or other cause make these units unavailable.

**Outage:** The period during which a generating unit, transmission line, or other facility is out of service.

**Output:** The amount of power or energy produced by a generating unit, station, or system.

**Peak Load:** The maximum load during a specified period of time.

**Peak Load Plant:** A plant usually housing old, low-efficiency steam units, gas turbines, diesels, or pumped-storage hydroelectric equipment normally used during the peak-load periods.

**Peaking Capacity:** Capacity of generating equipment normally operated during the hours of highest daily, weekly, or seasonal loads. Some generating equipment may be operated at certain times as peaking capacity and at other times to serve loads on a 'round-the-clock basis.

**Percent Difference:** The relative change in a quantity over a specified time period. It is calculated as follows: the current value number has the previous value number subtracted from it, and this new number is divided by the absolute value of the previous value number; then this new number is multiplied by 100.

**Plant:** A station at which are located prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or nuclear energy into electric energy. A station may contain more than one type of prime mover. Electric utility plants exclude stations that satisfy the definition of qualifying facility under the Public Utility Regulatory Policies Act of 1978.

**Plant-Use Electricity:** The electric energy used in the operation of a plant. This energy total is subtracted from the gross energy production of the plant; for reporting purposes the plant energy production is then reported as a net figure. The energy required for pumping at pumped-storage plants is by definition subtracted, and the energy production for these plants is then reported as a net figure.

**Plant Hours Connected to Load:** The number of hours the plant is synchronized to load over a time interval usually of 1 year.

**Pole-Mile:** A unit of measuring the simple length of a transmission line carrying electric conductors, without regard to the number of conductors carried.

**Pondage:** The amount of water stored behind a hydroelectric dam of relatively small storage capacity; the dam is usually used for daily or weekly control of the flow of the river.

**Power:** The rate at which energy is transferred, usually measured in watts. Also used for a measurement of capacity.

**Power (Electrical):** An electric measurement unit of power called a voltampere is equal to the product of 1 volt and 1 ampere. This is equivalent to 1 Watt for a direct current system and a unit of apparent power is separated into real and reactive power. Real power is the work-producing part of apparent power that measures the rate of supply of energy and is denoted as kilowatts (kW). Reactive power is the portion of apparent power that does no work and is referred to as kilovars; this type of power must be supplied to most types of magnetic equipment, such as motors, and is supplied by generator or by electrostatic equipment. Voltamperes are usually divided by 1,000 and called kilovoltamperes (kVA). Energy is denoted by the product of real power and the length of time utilized; this product is expressed as kilowatthours.

**Power Factor:** The ratio of real power (kilowatt) to apparent power kilovoltampere for any given load and time.

**Power Loss:** The difference between power input and output as a result of transfer of energy between two points; sometimes referred to as capacity loss.

**Power Pool:** An association of two or more interconnected electric systems to provide better system reliability and efficiencies. Depending upon the degree of control authorized by the member utilities, these pools may be run under a single system dispatch to supply power to meet combined load requirements and maintenance programs, or just share the benefits of planned or hourly available wholesale sales of power and energy among the member utilities.

**Power Production Plant:** All the land and land rights, structures and improvements, boiler or reactor vessel equipment, engines and engine-driven generator, turbogenerator units, accessory electric equipment, and miscellaneous power plant equipment are grouped together for each individual facility.

**Power System:** A group of one or more generating sources and/or connecting transmission lines operated under common management or supervision to supply load.

**Power Transfer Limit:** The maximum power that can be transferred from one electric utility system to

another without overloading any facility in either system.

**Powerhouse:** A structure at a hydroelectric plant site that contains the turbine and generator.

**Preliminary Permit (Hydroelectric Power):** A single site permit granted by the FERC, which gives the recipient priority over anyone else to apply for a hydroelectric license. The preliminary permit enables the recipient to prepare a license application and conduct various studies for economic feasibility and environmental impacts. The period for a preliminary permit may extend to 3 years.

**Price:** The amount of money or consideration-in-kind for which a service is bought, sold, or offered for sale.

**Price Squeeze:** Discriminatory rates charged for wholesale electric power that impede competition for retail customers. A price squeeze occurs if an electric utility's price for wholesale service is higher in relation to its wholesale cost than its price for retail service is in relation to its retail costs.

**Prime Mover:** The engine, turbine, water wheel, or similar machine that drives an electric generator.

**Proposed Rates:** New electric rate schedule proposed by an applicant to become effective at a future date.

**Prudence:** Carefulness, precaution, attentiveness, and good judgment, as applied to action or conduct. A legal concept used by regulators to determine the costs to be allowed in a rate base.

**Public Authorities:** Electricity supplied to municipalities or divisions or agencies of State and Federal governments, usually under special contracts or agreements that are applicable only to public authorities.

**Public Utility:** Enterprise providing essential public services, such as electric, gas, telephone, water, and sewer, under legally established monopoly conditions.

**Public Utility District:** Municipal corporations organized to provide electric service to both incorporated cities and towns and unincorporated rural areas. Public utility districts, sometimes called "People's Utility Districts" or "Public Power Districts," operate in six States.

**Publicly Owned Electric Utility:** A class of ownership found in the electric power industry. This group includes those utilities operated by municipalities, and State and Federal power agencies.

**Pumped-Storage Hydroelectric Plant:** A plant that usually generates electric energy during peak-load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit

to turbine generators located in a power plant at a lower level.

**Purchased Power:** Power purchased or available for purchase from a source outside the system.

**Purchased Power Adjustment:** A clause in a rate schedule that provides for adjustments to the bill when energy from other electric system is acquired and its cost varies from a specified unit base amount.

**Pure Pumped-Storage Hydroelectric Plant:** A plant that produces power only from water that has previously been pumped to an upper reservoir.

**Qualifying Facility:** A cogeneration facility or small power production facility that meets certain ownership, operating, and efficiency criteria established by the Federal Energy Commission pursuant to the Public Utilities Regulatory Policies Act of 1978 (See the Code of Federal Regulations, title 18, Part 282).

**Rate Base:** The value of property upon which a utility is permitted to earn a specified rate of return as established by a regulatory authority. The rate base generally represents the value of property used by the utility in providing service and may be calculated by any one or a combination of the following accounting methods: fair value, prudent investment, reproduction cost, or original cost. Depending on which method is used, the rate base includes cash working capital, materials and supplies, and deductions for accumulated provisions for depreciation, contributions in aid of construction, customer advances for construction, accumulated deferred income taxes, and accumulated deferred investment tax credits.

**Rate Case:** A proceeding, usually before a regulatory commission, involving the rates to be charged for a public utility service.

**Rate of Return:** The ratio of net operating income earned by a utility is calculated as a percentage of its rate base.

**Rate of Return on Rate Base:** The ratio of net operating income to a specified rate base, expressed as a percentage.

**Rate Schedule (Electric):** A statement of the financial terms and conditions governing a class or classes of utility services provided to a customer. Approval of the schedule is given by the appropriate ratemaking authority.

**Rates:** The authorized charges per unit or level of consumption for a specified time period for any of the classes of utility services provided to a customer.

**Ratemaking Authority:** A utility commission's legal authority to fix, modify, approve, or disapprove rates as determined by the powers given the commission by a State or Federal legislature.

**Rating:** A manufacturer's guaranteed performance of a machine, transmission line, or other electrical apparatus, based on design features and test data. The



rating will specify such limits as load, voltage, temperature, and frequency. The rating is generally printed on a nameplate attached to equipment and is commonly referred to as the nameplate rating, nameplate capacity, etc.

**Reactance:** A phenomenon associated with AC power characterized by the existence of a time difference between voltage and current variations.

**Rectifier:** A device for converting alternating current to direct current.

**Regulated Streamflow:** The rate of flow past a given point during a specified period that is controlled by reservoir water release operations.

**Regulation, Procedures, and Practices:** A utility commission carries out its regulatory functions through rulemaking and adjudication. Under rulemaking, the utility commission may propose a general rule or regulation change. By law, it must issue a notice of the proposed rule and a request for comments is also made; the Federal Energy Regulatory Commission publishes this in the Federal Register. The final decision must be published. A utility commission may also work on a case-by-case basis from submissions from regulated companies or others. Objections to a proposal may come from the commission or intervenors, in which case the proposal must be presented at a hearing presided over by an administrative law judge. The judge's decision may be adopted, modified, or reversed by the utility commissioners in which case those involved can petition for a rehearing, and may appeal a decision through the courts system to the U.S. Supreme Court.

**Reliability (Electric System):** A measure of the ability of the system to continue operation while some lines or generators are out of service. Reliability deals with the performance of the system under stress.

**Renewable Energy Source:** An energy source that is regenerative or virtually inexhaustible. Typical examples are wind, geothermal and water power.

**Repowering:** Replacement of the combustion technology in an aging generating plant with a new combustion technology, usually resulting in better performance and greater capacity.

**Required Rate of Return:** The minimum rate of return necessary to induce investors to buy or hold a given security. It equals the risk-free rate of interest, usually represented by the current yield on U.S. Treasury securities, growth potential, plus a risk premium.

**Requirements Power:** The firm service needs required by designated load plus losses from the points of supply.

**Reserve Generating Capacity:** Amount of generating capacity available to meet peak or abnormally high demands for power and to generate power during scheduled or unscheduled outages.

**Reserve Margin (Operating):** The amount of unused available capability of an electric power system at peak load for a utility system. This figure is calculated by adding running and quick-start capability to the capability available but not needed and then subtracting peak load.

**Reservoir:** A body of water collected and stored in a natural or artificial lake.

**Residential Sector:** The residential sector includes private household establishments that consume energy primarily for space heating, water heating, air conditioning, lighting, refrigeration, cooking, and clothes drying. The classification of an individual consumer's account, where the use is both residential and commercial, is based on principal use. Apartment houses are included.

**Restoration Time:** The time when the major portion of the interrupted load has been restored and the emergency is considered to be ended. However, some of the loads interrupted may not have been restored because of local problems.

**Retail Wheeling:** An arrangement in which a utility transmits electricity from outside its service territory to a retail customer within its customer service territory.

**Retired Hydropower Plant Sites:** The site of a plant that formerly produced electrical or mechanical power but is now out of service. Includes plants which have been abandoned, damaged by flood or fire, inundated by new reservoirs, or dismantled.

**Reversible Turbine:** A hydraulic turbine, normally installed in a pumped-storage plant, which can be used alternatively as a pump or as an engine, turbine, water wheel, or other apparatus that drives an electrical generator.

**Right-Of-Way:** The land, and legal right to use and service the land along which a transmission line is located. Transmission line right-of-way is usually acquired in widths that vary with the kilovolt (kV) size of the line.

**Rulemaking (Regulations):** The authority delegated to administrative agencies by Congress or State legislative bodies to make rules that have the force of law. Frequently, statutory laws that express broad terms of a policy are implemented more specifically by administrative rules, regulations and practices.

**Running and Quick-Start Capability:** The net capability of generating units that carry load or have quick-start capability. In general, quick-start capability refers to generating units that can be available for load within a 30-minute period.

**Run-off:** That portion of the precipitation that flows over the land surface and ultimately reaches streams to complete the water cycle. Melting snow is an important source of this water as well as all amounts of surface water that moves to streams or rivers through any given area of a drainage basin.

**Rural Electrification Administration (REA) :** A former lending agency of the U.S. Department of Agriculture (USDA) that was established in the 1930's and was terminated in the early 1990's. Its responsibilities now reside with the Rural Utilities Service (RUS) in USDA. RUS makes self-liquidation loans to qualified borrowers to finance electric, telephone, water, and other services to rural areas. RUS finances the construction and operation of generating plants, electric transmission and distribution lines, or systems, for the furnishing of initial and continued adequate electric services to persons in rural areas not receiving central station service.

**Sales:** The amount of kilowatthours sold in a given period of time; usually grouped by classes of service such as residential, commercial, industrial, and other.

**Sales for Resale:** A type of wholesale sales covering energy supplied to other electric utilities, cooperatives, municipals, and Federal and State electric agencies for resale to ultimate consumers.

**Schedule:** A statement of the pricing format of electricity and the terms and conditions governing its applications.

**Scheduled Outage:** The shutdown of a generating unit, transmission line, or other facility, for inspection or maintenance, in accordance with an advance schedule.

**Service Area:** The territory in which a utility system or distributor is authorized to provide service to consumers.

**Single-circuit Line:** A transmission line with one electric circuit. For three-phase supply, a single circuit requires at least three conductors, one per phase.

**Single-Purpose Project:** A hydroelectric project constructed only to generate electricity.

**Small Power Producer:** Under the Public Utility Regulatory Policies Act, A small power production facility (or small power producer) generates electricity using renewable biomass, conventional hydroelectric, solar, wind, and geothermal energy as a primary energy source. Fossil fuels can be used, but renewable resources must provide at least 75 percent of the total energy input. (See Code of Federal Regulations, Title 18, Part 292.)

**Special Contract Rate Schedule:** An electric rate schedule for an electric service agreement between a utility and another party in addition to, or independent of any standard rate schedule.

**Special Purpose Rate Schedule:** An electric rate schedule limited in its application to some particular purpose or process within one, or more than one, type of industry or business.

**Stability:** The property of a system or element by virtue of which its output will ultimately attain a

steady state. The amount of power that can be transferred from one machine to another following a disturbance. The stability of a power system is its ability to develop restoring forces equal to or greater than the disturbing forces so as to maintain a state of equilibrium.

**Standby Charge:** A charge for the potential use of a utility service, usually done by an agreement with another electric utility system. These services include system backup support, and other running and quick-start capabilities.

**Standby Facility:** A facility that is on call to support a utility system and is available to replace or supplement a facility normally in service.

**Standby Service:** Support service that is available as needed to supplement a customer, a utility system, or to another utility if a schedule or an agreement authorizes the transaction. The service is not regularly used.

**State Severance Taxes:** Any severance, production, or similar tax, fee, or other levy imposed on the production of crude oil, natural gas, or coal by any State, local government acting under authority of State law, or by an Indian tribe recognized as eligible for services by the Secretary of the Interior.

**Station (Electric):** A plant containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or nuclear energy into electric energy.

**Station Use:** Energy that is used in the operation of an electric generating plant. It includes energy consumed for plant lighting, power, and auxiliary facilities, regardless of whether the energy is produced at the plant or comes from another source.

**Steam-Electric Plant (Conventional):** A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

**Streamflow:** The rate at which water passes a given point in a stream, usually expressed in cubic feet per second.

**Substation:** Facility equipment that switches, changes, or regulates electric voltage.

**Subtransmission:** A set of transmission lines of voltages between transmission voltages and distribution voltages. Generally, lines in the voltage range of 69 kV to 138 kV.

**Supporting Structure:** The main supporting unit (usually a pole or tower) for transmission line conductors, insulators, and other auxiliary line equipment.

**Surplus Energy:** Energy generated that is beyond the immediate needs of the producing system. This energy may be supplied by spinning reserve and sold on an interruptible basis.

**Suspended Rates:** New rates that have been accepted for review by a utility commission. When these rates are suspended, they do not go into effect for a designated period of time, up to a maximum of five months for FERC. Charges under the new rate may be refunded after the resolution of the rate proceeding.

**Switching Station:** Facility equipment used to tie together two or more electric circuits through switches. The switches are selectively arranged to permit a circuit to be disconnected, or to change the electric connection between the circuits.

**System (Electric):** Physically connected generation, transmission, and distribution facilities operated as an integrated unit under one central management, or operating supervision.

**System Interconnection:** A physical connection between two electric systems that permits the transfer of electric energy in either direction.

**Tariff:** A published volume of rate schedules and general terms and conditions under which a product or service will be supplied.

**Terawatt-hour (TWh):** One trillion ( $10^{12}$ ) watt-hours of electric energy.

**Thermal Limit:** The maximum amount of power a transmission line can carry without suffering heat-related deterioration of line equipment, particularly conductors.

**Three-party Wheeling:** An arrangement in which a utility transmits electricity for two other utilities that are not physically connected, where the transmitting utility neither buys nor sells the electricity.

**Three-phase Power:** Power generated, and transmitted from generator to load, on three conductors.

**Tie Line:** A circuit connecting two or more power systems and/or a generating facility to the grid.

**Transfer Capability:** The overall capacity of inter-regional or international power lines, together with the associated electrical system facilities, to transfer power and energy from one electrical system to another.

**Transformer:** An electrical device for changing the voltage of alternating current.

**Transmission:** The movement or transfer of electric energy over an interconnected group of lines and associated equipment between points of supply and points at which it is transformed for delivery to consumers, or is delivered to other electric systems. Transmission is considered to end when the energy is transformed for distribution to the consumer.

**Transmission Circuit:** A conductor used to transport electricity from generating stations to load.

**Transmission Line:** A set of conductors, insulators, supporting structures, and associated equipment used to move large quantities of power at high voltage, usually over long distances between a generating or receiving point and major substations or delivery points.

**Transmission Network:** A system of transmission or distribution lines so cross-connected and operated as to permit multiple power supply to any principal point.

**Transmission System, Electric:** An interconnected group of electric transmission lines and associated equipment for moving or transferring electric energy in bulk between points of supply and points at which it is transformed for delivery over the distribution system lines to consumers, or is delivered to other electric systems.

**Turbine:** A machine for generating rotary mechanical power from the energy in a stream of fluid (such as water, steam, or hot gas). Turbines convert the kinetic energy of fluids to mechanical energy through the principles of impulse and reaction, or a mixture of the two.

**Two-party Wheeling:** An arrangement between two utilities in which one utility agrees to transmit electricity owned by the other.

**Ultimate Consumer:** A consumer that purchases electricity for its own use and not for resale.

**Uniform System of Accounts:** Prescribed financial rules and regulations established by the Federal Energy Regulatory Commission for utilities subject to its jurisdiction under the authority granted by the Federal Power Act.

**Unscheduled Outage Service:** Power received by a system from another system to replace power from a generating unit forced out of service.

**Used and Useful:** A concept used by regulators to determine whether an asset should be included in the utility's rate base. This concept requires that an asset currently provide or be capable of providing a needed service to customers.

**Utility (Electric):** Privately owned companies and public agencies engaged in the generation, transmission, or distribution of electric power for public use. Public agencies include municipal electric utilities, Federal power projects, rural electrification cooperatives, power districts, and State power authorities and projects.

**Utility Generation:** Generation by electric systems engaged in selling electric energy to the public.

**Volt:** The unit of measurement of voltage, electrical force, or pressure. The electrical force that, if steadily applied to a circuit with a resistance of 1 ohm, will produce a current of 1 ampere.

**Voltage:** The difference in electrical potential between any two conductors or between a conductor and ground. It is a measure of the electric energy per electron that electrons can acquire and/or give up as they move between the two conductors.

**Voltage Reduction:** Any intentional reduction of system voltage by 3 percent or greater for reasons of maintaining the continuity of service of the reporting entity's electric power supply system.

**Waterway:** A river, channel, canal, or other navigable body of water used for travel or transport.

**Watt:** The electrical unit of power. The rate of energy transfer equivalent to 1 ampere flowing under a pressure of 1 volt at unity power factor.

**Watt-hour (Wh):** An electrical energy unit of measure equal to 1 watt of power supplied to, or taken from, an electric circuit steadily for 1 hour.

**Weir:** A dam in a waterway over which water flows and that serves to raise the water level, or direct or regulate flow.

**Wheeling:** The use of the transmission facilities of one entity to transmit electricity of and for another entity or entities. The most common type of wheeling involves one utility transferring electricity generated by a second utility for sale to a third utility.

**Wheeling Charge:** An amount charged by one electrical system to transmit the energy of, and for, another system or systems.

**Wheeling Service:** The movement of electricity from one system to another over transmission facilities of intervening systems. Wheeling service contracts can be established between two or more systems.

**Wholesale Sales:** Energy supplied to other electric utilities, cooperatives, municipalities, and Federal and State electric agencies for resale to ultimate consumers.

**Wholesale Wheeling:** An arrangement in which electricity is transmitted from a generator to a utility through the transmission facilities of an intervening system.

**Wind Energy:** Energy produced by harnessing the force of the wind. In a wind energy conversion system such as a windmill, the energy of wind is used to turn the shaft of a generator, which in turn usually produces direct current. This direct current is usually converted to alternating current before being fed into a utility grid system.

**Year to Date:** The cumulative sum of each month's value starting with January and ending with the current month of the data.