



# **U.S. Electric Utility Demand-Side Management 1994**

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# Preface

The *U.S. Electric Utility Demand-Side Management* report is prepared by the Coal and Electric Data and Renewables Division; Office of Coal, Nuclear, Electric and Alternate Fuels; Energy Information Administration (EIA); U.S. Department of Energy. The report presents comprehensive information on electric power industry demand-side management (DSM) activities in the United States at the national, regional, and utility levels. The objective of the publication is to provide industry decision makers, government policy makers, analysts, and the general public with historical data that may be used in understanding DSM as it relates to the U.S. electric power industry. The first chapter, "Profile: U.S. Electric Utility Demand-Side Management," presents a general discussion of DSM, its history, current issues, and a review of key statistics for the year. Subsequent chapters present discussions and more detailed data on energy savings, peak load reductions and costs attributable to DSM.

## Target Audience

In the private sector, the majority of users are researchers, analysts, and ultimately the policymaking and decisionmaking members of electric utility companies. Financial and investment institutions, economic development organizations interested in new power plant construction, special interest groups, lobbyists, electric power associations, and the news media are all prospective users of the *U.S. Electric Utility Demand-Side Management* report.

In the public sector, users include analysts, researchers, statisticians, and other professionals engaged in regulatory, policy, and program activities for Federal, State, and local governments. The Congress, other legislative bodies, State public service commissions, and other government groups share an interest in general trends and specific DSM data. This report can be used in analytic studies to evaluate new or existing legislation.

## Source of Data

Data published in the *U.S. Electric Utility Demand-Side Management* report are compiled from the Form EIA-861, "Annual Electric Utility Report." The Form EIA-861 is a census of electric utilities in the United States, its territories, and Puerto Rico. It is used to collect annual data on the production, sales, revenue from sales, and trade of electricity, as well as demand-side management from approximately 3,200 electric utilities in the United States. Schedule V, "Demand-Side Management Information," of Form EIA-861 collects the demand-side management data.

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# Contents

	<b>Page</b>
Profile: U.S. Electric Utility Demand-Side Management .....	1
Energy Savings .....	7
Peak Load Reduction .....	31
Cost .....	61
Appendices	
A. Technical Notes .....	87
B. Glossary .....	95

# Tables

	Page
1. U.S. Electric Utility DSM Program Energy Savings, Actual and Potential Peak Load Reductions, and Cost, 1990 Through 1994 .....	4
2. U.S. Electric Utility DSM Program Energy Savings by Class of Ownership, 1990 Through 1994, 1995 and 1999 .....	8
3. U.S. Electric Utility DSM Program Energy Savings by Program Category, 1993, 1994, 1995, and 1999 .....	10
4. Number of U.S. Electric Utilities with DSM Energy Efficiency Programs by End Uses and Program Types by Sector, 1994 .....	11
5. U.S. Electric Utility DSM Program Energy Savings by Sector, 1993 and 1994 .....	11
6. U.S. Electric Utility Incremental Energy Savings by Class of Ownership, 1993 and 1994 .....	12
7. U.S. Electric Utility Incremental Energy Savings by Program Category, 1993 and 1994 .....	12
8. U.S. Electric Utility Incremental Energy Savings by Sector, 1993 and 1994 .....	12
9. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999 .....	13
10. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994 .....	19
11. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994 .....	25
12. U.S. Electric Utility Actual and Potential Peak Load Reductions by Class of Ownership, 1990 Through 1994, 1995, and 1999 .....	33
13. U.S. Electric Utility Actual and Potential Peak Load Reductions by DSM Program Category, 1993, 1994, 1995, and 1999 .....	35
14. U.S. Electric Utility Actual and Potential Peak Load Reductions by Sector, 1993 and 1994 .....	36
15. U.S. Electric Utility Incremental Actual Peak Load Reductions by Class of Ownership, 1993 and 1994 .....	37
16. U.S. Electric Utility Incremental Actual Peak Load Reductions by DSM Program Category, 1993 and 1994 .....	37
17. U.S. Electric Utility Incremental Actual Peak Load Reductions by Sector, 1993 and 1994 .....	37
18. U.S. Electric Utility Actual and Potential Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Utility, 1993, 1994, 1995, and 1999 .....	38
19. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994 .....	46
20. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994 .....	53
21. U.S. Electric Utility DSM Program Costs by Class of Ownership, 1990 Through 1994, 1995, and 1999 .....	63
22. U.S. Electric Utility DSM Program Costs by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999 .....	64
23. U.S. Electric Utility DSM Program Direct Utility Costs by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994 .....	72
24. U.S. Electric Utility DSM Program Indirect Utility Costs by North American Electric Reliability Council Region and Hawaii by Cost Category, 1994 .....	79
A1. Unit-of-Measure Equivalents .....	91

# Illustrations

	<b>Page</b>
1. Number of U.S. Electric Utilities With and Without DSM Programs, 1994 .....	5
2. U.S. Electric Utility DSM Program Incremental and Annual Effects for Energy Savings and Actual and Potential Peak Load Reductions, 1994 .....	5
3. Energy Savings as a Percentage of Retail Sales by U.S. Electric Utilities with DSM Energy Savings Programs and by Class of Ownership, 1994 .....	9
4. The Top 25, 50, and 100 U.S. Electric Utilities with the Greatest DSM Program Energy Savings by Class of Ownership, 1994 .....	10
5. Actual Peak Load Reductions as a Percentage of Total Peak Load by U.S. Electric Utilities with DSM Peak Load Reduction Programs and by Class of Ownership, 1994 .....	34
6. The Top 25, 50, and 100 U.S. Electric Utilities with the Greatest DSM Program Peak Load Reductions by Class of Ownership, 1994 .....	34
7. U.S. Electric Utility Actual and Potential Peak Load Reductions by DSM Program Category, 1994 ....	36
8. U.S. Electric Utility DSM Program Costs as a Percentage of Retail Revenue by Number of Utilities with DSM Costs, 1994 .....	62
9. The Top 25, 50, and 100 U.S. Electric Utilities with the Greatest DSM Program Costs by Class of Ownership, 1994 .....	62
A1. North American Electric Reliability Council Regions for the Contiguous United States and Alaska ...	90

# Profile: U.S. Electric Utility Demand-Side Management

This chapter provides a background of electric utility demand-side management in the United States and summarizes pertinent statistics for large electric utilities<sup>1</sup> in the United States on various aspects of demand-side management.

## Background

Demand-Side Management (DSM) consists of electric utilities' planning, implementing, and monitoring of activities designed to encourage consumers to modify their levels and patterns of electricity consumption. These activities are performed to benefit utilities, consumers, and society. Utilities implement DSM programs to achieve two basic objectives: energy efficiency and load management. Energy efficiency is primarily achieved through programs that reduce overall energy consumption of specific end-use devices and systems by promoting high-efficiency equipment and building design. Energy efficiency programs typically reduce energy consumption over many hours during the year. Load management programs, on the other hand, are designed to achieve peak load reductions. Utilities primarily activate these programs at the time of peak load. Load management programs have little effect on total energy consumption. Electric utilities have steadily increased DSM programs in the last decade to promote energy efficiency, reduce toxic air emissions, and achieve cost effectiveness for both utilities and consumers, mainly by deferring the need to build new power plants.

The Energy Information Administration (EIA) collects data on DSM programs using six program categories:

**Energy Efficiency** programs are aimed at reducing the energy used by specific end-use devices and systems, without reducing the quality of energy services provided. These programs reduce overall electricity consumption over many hours during the year, although the greatest impacts of cost-effective programs often coincide with periods of peak usage. Such savings are generally achieved by substituting technologically more advanced equipment to produce equal levels of energy services (e.g., lighting, heating, motor drive) with less electricity. Examples include energy saving appliances and lighting, high-efficiency heating, ventilating and air conditioning (HVAC)

systems or control modification, efficient building design, advanced electric motors and drive systems, and heat recovery systems. Energy efficiency programs frequently incorporate rebates, financing, or other financial incentives for participation.

**Direct Load Control** represents the consumer load that can be interrupted during the periods of peak load by the utility system operator directly interrupting power supply to individual appliances or equipment. Direct Load Control usually involves residential consumers who, for example, allow the utility to periodically interrupt service to air conditioning units during the hours of peak load.

**Interruptible Load** accounts for the consumer load that, in accordance with contractual arrangements, can be interrupted during periods of peak load, either by direct control of the utility system operator or by action of the consumer, at the direct request of the system operator. For example, large commercial and industrial consumers may obtain discount interruptible rates for agreeing to reduce electrical loads upon request from the utility, usually as a strategy to reduce peak load.

**Other Load Management** refers to programs other than direct load control and interruptible load that limit peak loads, shift peak load from on-peak to off-peak hours, or encourage consumers to respond to changes in the utility's cost of providing power.<sup>2</sup> Included are technologies that primarily shift all or part of a load from one time of day to another and also may affect overall energy consumption. Examples include space heating and water heating storage systems, cool storage systems, and load limiting devices in energy management systems. This category also includes programs that aggressively promote time-of-use (TOU) rates and other innovative rates such as real-time pricing. These rates are intended to reduce consumer bills and shift hours of operation of equipment from on-peak to off-peak or high-cost to low-cost periods through the application of time-differentiated rates.

**Other Demand-Side Management** are those programs that capture effects of DSM programs that cannot be meaningfully included in any of the other program categories. Included are programs that

<sup>1</sup> Large utilities are those with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours annually.

<sup>2</sup> Load control mechanisms such as interruptible load programs may be used in emergency situations. However, sometimes other load control mechanisms such as voltage reduction or rolling blackouts may be needed. While voltage reduction and rolling blackouts reduce load and save energy, they are not considered DSM programs. A description of voltage reduction is provided in the Technical Notes.

promote consumers' substitution of other types of energy for electricity and self-generation of electricity for consumers' own use.

**Load Building** programs are aimed at increasing the use of existing electric equipment or the addition of electric equipment. Examples include industrial technologies such as induction heating and melting, direct arc furnaces, and infrared drying; cooking for commercial establishments; and heat pumps for residences. Load Building includes programs that promote the substitution of electricity for other forms of energy. Load Building promotes load growth and is not included in this publication.

The concept of energy efficiency began in the 1970's in response to increasing capital costs, increasing electricity demand, rising electricity prices, and increased public awareness of energy resources and conservation. Federal regulators and State public service commissions responded with utility policies that contributed to the evolution of DSM. Federal legislation includes the Energy Policy and Conservation Act (1975), Energy Conservation and Production Act (1976), and National Energy Conservation Policy Act (1978). These three Acts provided the technical basis for utility conservation and load management programs. The Public Utility Regulatory Policies Act (1978) required State public service commissions to consider rate-making standards that further the purposes of end-use conservation, utility efficiency, and equitable rates. It also required State public service commissions to review cost allocations across consumer classes, the accuracy of declining block rates in reflecting actual costs, time-of-day and seasonal rates, interruptible rates, and load management techniques. The Pacific Northwest Electric Power Planning and Conservation Act (1980) and Hoover Power Plant Act (1984) encouraged DSM through the Federal power marketing administrations.

The National Appliance Energy Conservation Act (1987), Clean Air Act and its Amendments (1990), and the Energy Policy Act (1992) are the most recent Federal legislation affecting DSM. The Clean Air Act Amendments of 1990 internalized the cost of environmental externalities, specifically sulfur dioxide emissions, through the adoption of a market-based system of emission control in which utilities are issued allowances, each allowing the emission of one ton of sulfur dioxide per year. This system encourages utilities to reduce emissions in the most cost effective manner and sell or trade excess allowances.

The Energy Policy Act of 1992 (EPACT) represents the continuing Federal interest in encouraging energy efficiency. EPACT requires State public service commissions to consider standards that will require utilities to employ Integrated Resource Planning (IRP). Consequently, most significant regulatory requirements effecting DSM data are occurring at the State level. The concept of IRP also began in the 1970's when many States began to review utilities' plans for new generation capacity. Some electric utilities had built controversial capacity additions over which there had been limited or no advance regulatory oversight. A majority of States now require IRP, and a continued

interest in DSM can be partially attributed to it. IRP differs from conventional resource planning in that utilities consider both demand- and supply-side resources as options for meeting future electricity requirements, rather than just supply-side resources. Specifically, a utility is able to assume a decrease in demand as a result of DSM programs when planning to meet future electricity needs, rather than increasing generation.

DSM programs are a key component of IRP at a growing number of utilities. IRP differs among utilities based on availability of resources, owners of the resources, organizations involved in planning, and the criteria for resource selection. The IRP process is complex, taking into consideration the balance of supply- and demand-side resources, risk and diversity of supply, system reliability, maintenance, external changes (economic conditions), energy prices, new technologies, regulatory and tax policy changes, and in some instances, the application of specific values to reflect environmental and other externalities.

One key element in the DSM program planning and selection process is to identify and evaluate consumer characteristics that influence acceptance of and response to DSM programs. Among consumer characteristics that influence the success of a program are demographics, income, knowledge, awareness, attitude, and motivation. External influences such as economic conditions, energy prices, technologies, regulation, and tax credits also influence consumers' decisions regarding fuel, appliance choices, and equipment efficiency. Another key element is to identify utility considerations that affect resource requirements and the cost of alternative resource options. In a regulated industry, utility considerations are focused on the interaction of load shape distribution effects and regulatory compliance.

In a noncompetitive industry, such as the electric power industry in most States, utilities maximize revenue by selling as much electricity as possible; thus, DSM programs that reduce sales should not interest them. To promote DSM, State regulatory commissions developed financial incentives, such as 1) authorizing utilities to seek recovery of DSM program costs and lost revenues, and 2) granting utilities higher rates of return. These incentives are meant to neutralize the lost sales and revenues attributable to DSM. To compare DSM programs with other demand- and supply-side resources, regulators have developed standardized benefit/cost tests. Four primary tests are widely used to identify cost-effective DSM programs. For each test, the net present value and benefit/cost ratio can be determined. The present value equals total benefits of the program less total cost; the benefit/cost ratio is the ratio of total benefits to total costs. Based on these values, the utility can prioritize DSM programs to determine which, if any, might be implemented.

**The Utility Cost Test** measures the net change in a utility's revenue requirement resulting from a DSM program. The test compares the reduction in marginal energy and demand costs with utility program costs, incentive payments, and increased supply costs for a

period in which load is increased. Designed to focus on a utility's revenue requirement, the test does not include any net costs incurred by participants.

**The Participant Cost Test** measures the benefits and costs of a DSM program to a customer by comparing the reduction in the customer's utility bill, plus any incentive paid by the utility, with the customer's out-of-pocket expenses. The test is often used as a "first-cut" in ranking program desirability and gauging potential program participation rates.

**The Total Resource Cost Test** measures the net costs of a DSM program as a resource option based on the total costs of the program, including both participant and utility costs. Like the utility cost test, it measures benefits as reductions to energy and demand costs, but also includes a review of all program costs, including installation, operation, maintenance, and administration, no matter who pays for them.

**The Rate Impact Measure Test** measures the direction and magnitude of the expected changes in rates for all customers when a utility implements a DSM program. The equation functions initially in the same manner as the utility cost test, comparing avoided

supply cost savings with cost to the utility. It also, however, measures the revenue-shifting effect unique to DSM --that is, when costs must be spread over a smaller sales volume. The shift reduces revenue requirements, but not to the same extent as sales are reduced by DSM programs. The difference causes an increase in rates on a cents per kilowatthour basis. If a utility has excess capacity and its average costs exceeds its marginal costs, a DSM program will likely increase rates. The converse is true when marginal costs are forecast to exceed average costs.

## ***Verification***

Electric utilities were asked to complete information on their DSM verification and estimation methodologies beginning with the 1993 survey year. In 1994, 471 large electric utilities, out of the 579 large electric utilities having DSM programs, reported that they verified the estimated effects of DSM programs. The majority of the utilities verified their DSM program effects in response to State mandates, but also used verification to analyze the cost-effectiveness of their DSM programs.



## Current Issues and Trends

Electric utility demand-side management (DSM) programs will ultimately be affected by changes taking place in the electric power industry. Currently, several States are allowing retail wheeling and others are considering it. Retail wheeling allows large consumers the option to purchase power from any electric utility. The consumers select the electric utility that offers the best service. In many cases the best service is not necessarily accomplished by the lowest rates. As a marketing tool, utilities not only offer low rates, but also other incentives, such as time-of-use rates, interruptible rates, and aid to consumers in reducing or restricting their electricity requirements.

In a competitive environment, energy efficiency programs, currently designed with the costs embedded in the electric rates, probably will not be cost effective. In anticipation of competition, some electric utilities, such as Pacific Gas and Electric in California and Niagara Mohawk in New York, have created energy service companies to sell energy efficiency programs and other services to interested consumers. Due to uncertainty in the electric power industry, other utilities are projecting significant reductions in DSM programs that are not considered to be cost effective. Also, accurate five-year projected data are becoming difficult for some utilities to report.

However, despite changes that are occurring in many States, other States have made no changes to the structure of the electric utility industry. In these States, electric utilities are still mandated to consider DSM in their integrated resource plans (IRP).

In 1994, 1,030 of the 3,204 electric utilities in the United States reported having DSM programs, an increase of 5.4 percent over 1993. Of these, 147 were investor-owned utilities, 464 were publicly owned, 417 were cooperatives, and 2 were Federally owned (Figure 1). Of these 1,030 electric utilities, 579 are classified as large and 451 are small.<sup>3</sup> The number of large utilities increased by 6.2 percent from 1993 when 545 reported having DSM programs, and small utilities increased by 4.4 percent, from 432, in 1993. The 1,030 utilities accounted for 84 percent of the total retail sales of electricity in the United States.

In 1994, energy savings for the 579 large utilities increased to 52,483 million kilowatthours (kWh), 7,189 million kWh over the 45,294 million kWh reported in 1993. These energy savings represented 1.8 percent of annual electric sales to ultimate consumers in 1994 of 2,934,563 million kWh.<sup>4</sup>

Actual peak load reductions for large utilities increased 8.4 percent, from 23,069 megawatts (MW) in 1993 to 25,001 MW in 1994. These actual peak load reductions are approximately 4 percent of total peak load in the United States. Potential peak load reductions increased 8.6 percent, from 39,508 MW in 1993 to 42,917 MW in 1994. DSM costs were approximately \$2.7 billion in both 1993 and 1994, ending the trend of increasing costs from 1990 to 1993.

Incremental effects are those caused by new programs and new participants in existing programs for the current reporting year. For 1994, incremental energy savings for large utilities were 8,229 million kWh, incremental actual peak load reductions were 3,169 MW, and incremental potential peak load reductions were 5,994 MW (Figure 2).<sup>5</sup>

**Table 1. U.S. Electric Utility DSM Program Energy Savings, Actual and Potential Peak Load Reductions, and Cost, 1990 Through 1994**

Item	1990	1991	1992	1993	1994
Energy Savings (million kilowatthours).....	20,458	24,848	35,563	45,294	52,483
Actual Peak Load Reductions (megawatts).....	13,704	15,619	17,204	23,069	25,001
Potential Peak Load Reductions (megawatts).....	NA	NA	32,442	39,508	42,917
Cost (thousand dollars).....	1,177,457	1,803,773	2,348,094	2,743,533	2,715,657

NA=Data not available.

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours. •Totals may not equal sum of components because of independent rounding.

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

<sup>3</sup> Unless otherwise stated, the discussions and statistics that are contained in this publication are for large utilities only. Large utilities are those with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours annually.

<sup>4</sup> Energy Information Administration, *Electric Sales and Revenue 1994*, DOE/EIA0540(94) (Washington, DC, November 1995), Table 1, p. 5.

<sup>5</sup> It is incorrect to assume that 1993 annual effects plus 1994 incremental effects are equal to 1994 annual effects. Reasons for this discrepancy include incremental effects being annualized, and the effects of participants dropping out of programs that are not included in incremental effects.

# Energy Savings

Energy savings represent a decrease in the amount of electricity (measured in kilowatthours (kWh)) used. Energy savings primarily result from energy efficiency programs, but also result from load management and other DSM programs. Examples of energy efficiency programs include the promotion of energy saving appliances and lighting; high-efficiency heating and air conditioning systems (HVAC) and control modification; energy efficient building designs; advanced electric motors and drive systems; and heat recovery systems.

The future of electric utility sponsored energy efficiency programs is uncertain due to expected competition in the electric utility industry. In a competitive environment, a utility would have little incentive to reduce energy sales (one of the objectives of energy efficiency programs). As of the summer of 1995, few electric utilities had significantly changed their energy efficiency programs. However, many electric utilities had discontinued rebate programs, claiming they were not cost effective.

In 1994, energy savings increased 15.9 percent to 52,483 million kWh from the 1993 level of 45,294 million kWh. The percent increase from 1993 to 1994 is less than the 27.4 percent increase from 1992 to 1993. For 1995, energy savings are forecasted to increase less than 1 percent to 52,831 million kWh, and for 1999, energy savings are forecasted to increase at an annual rate of 8.0 percent to 71,883 million kWh (Table 2). The decrease in the rate of increase, compared with prior years, is due to many factors. For example, electric utilities are cautious about energy efficiency programs in anticipation of competition in the electric power industry and saturation of the energy efficiency market.

In 1994, energy savings represented a reduction in electricity sales by electric utilities of 1.8 percent.<sup>6</sup> Approximately 39 percent of utilities that had energy saving programs reduced their energy sales by more than 1 percent in 1994 (Figure 3). Investor-owned utilities represented the greatest energy savings as a percentage of sales in 1994.

The 100 utilities with the greatest energy savings accounted for 95.1 percent of total energy savings. The 50 utilities with the greatest energy savings accounted for 86.7 percent of the total, and the 25 top utilities accounted for 74.5 percent of the total (Figure 4). These 100, 50, and 25 utilities with the greatest

energy savings represented 57.8 percent, 39.1 percent, and 25.3 percent, respectively, of total retail sales of electricity in the United States for 1994.

Investor-owned utilities accounted for 78.4 percent of energy savings in 1994; publicly owned utilities accounted for 5.6 percent; cooperatives, 1.1 percent; and Federally owned utilities, 14.9 percent.<sup>7</sup> From 1993 to 1994, investor-owned electric utilities increased energy savings by 17.3 percent. Savings by Federal electric utilities increased 12.6 percent, while savings by cooperatives fell 20.6 percent. The largest increase over 1993 was for investor-owned electric utilities, increasing 6,055 million kWh. However, from 1994 to 1995, the forecasted rate of increase for investor-owned electric utilities fell to 1.6 percent, while it increased to 23.3 percent for publicly owned electric utilities. From 1994 to 1995, cooperatives and Federal electric utilities' energy savings are predicted to decrease 5.4 and 12.4 percent, respectively. From 1995 to 1999, projected energy savings are expected to increase in all classes of ownership, with the largest percent increases, 11.2 and 12.4 percent annually, for publicly owned electric utilities and cooperatives. The largest increase overall is predicted for investor-owned utilities. The fluctuation among Federal electric utilities is primarily due to Bonneville Power Administration (BPA). BPA has announced that they will no longer fund energy efficiency programs for their member electric utilities. However, the effects of the programs will continue as many of the member utilities are taking over these energy efficiency programs.

In 1994, energy efficiency programs accounted for 94.7 percent of the energy savings. The primary objective of most other DSM programs is peak load reductions. Direct load control, interruptible load, other load management, and other DSM programs together accounted for the remaining 5.3 percent of energy savings. Energy savings from energy efficiency programs increased 20.9 percent over the 1993 level. Energy savings decreased in all other categories. For 1995, energy efficiency programs are predicted to continue to account for the greatest share of energy savings, 97.0 percent. The greatest percentage of increase is predicted for other load management, which is expected to increase by 104.7 percent by 1995. By 1999, energy efficiency programs are expected to increase energy savings by an additional 18,604 million kWh over projected 1995 levels (Table 3).

<sup>6</sup> Total U.S. electric utility sales to ultimate consumers for 1994 were 2,934,563 million kWh (*Electric Sales and Revenue 1994*).

<sup>7</sup> Data reported by Federal electric utilities, such as, Tennessee Valley Authority (TVA) and Bonneville Power Administration (BPA) may be misleading. Both TVA and BPA fund energy efficiency programs for utilities in different ownership classes.

During the year, more utilities reported having energy efficiency programs in place in the residential sector than in the commercial or industrial sectors. However, the commercial and industrial sectors still contributed a large percentage of energy savings due to economies of scale (i.e., a commercial building participating in an efficient lighting program will have greater energy savings than a single residential building). Energy efficiency end-use programs in the residential sector were primarily for heating systems, cooling systems, and water heating. More utilities had lighting and cooling systems programs for the commercial sector, while the industrial sector focused on lighting and advanced motor programs. Across all sectors, more utilities used energy audits than other programs, followed by rebates, loans, other incentives, and other programs (Table 4).

The commercial sector accounted for 41.5 percent of energy savings in 1994, followed by the residential, industrial, and other sectors with 40.1 percent, 16.3 percent, and 2.1 percent, respectively. Among the major consumer sectors, the greatest percentage of increase from 1993 to 1994 was in the commercial sector, with 31.4 percent more energy savings, mainly because there were more utility-administered efficient lighting programs and cooling systems (Table 5).

In 1994, incremental energy savings (the savings achieved by new programs and new participants in existing programs in a given year) decreased from 8,980 million kWh in 1993 to 8,229 million kWh for large utilities and from 22 million kWh to 18 million kWh for small utilities. By class of ownership, large investor-owned utilities accounted for 84.7 percent of incremental energy savings. Publicly owned and Federal electric utilities both showed an increase in incremental energy savings in 1994 (Table 6). The decrease in incremental savings over past years can be attributed to a number of factors including market saturation and competition in the electric power industry.

By program category, the greatest decrease from 1993 to 1994 in incremental energy savings for large utili-

ties was in the energy efficiency category, which decreased 418 million kWh. For small electric utilities in 1994, other load management programs increased 1 million kWh, while all other categories either were unchanged or decreased (Table 7).

The commercial sector accounted for 54.1 percent of incremental energy savings, 4,449 million kWh; the residential sector accounted for 26.7 percent, 2,194 million kWh; and the industrial sector accounted for 16.1 percent, 1,325 million kWh. Incremental energy savings decreased in all sectors except the "other" sector, which increased by 137 million kWh (Table 8).

The NERC region with the greatest percentage of energy savings was Western Systems Coordinating Council (WSCC), accounting for 37.4 percent of energy savings in 1994. The WSCC had the most energy savings because Bonneville Power Administration and Southern California Edison Company had the two largest energy efficiency programs of all electric utilities. The region with the second largest energy savings was Southeastern Electric Reliability Council (SERC), with 22.4 percent of total energy savings. In 1993, these two regions combined accounted for 64.5 percent of total U.S. energy savings. WSCC and Northeast Power Coordinating Council (NPCC) both reduced energy sales by over 3 percent as a result of their DSM programs. The remaining regions had reductions in energy sales attributed to DSM programs of less than 2 percent (Tables 9, 10, and 11).

For 1995, not including ASCC, the greatest percentage of increase, 35.2 percent, in energy savings is predicted for the Mid-Continent Area Power Pool (MAPP) region. The greatest increase in kWh in both 1995 and 1999 is expected for the NPCC region. The East Central Area Reliability Coordination Agreement (ECAR) region is expected to have the greatest annual rate of growth in energy savings from 1995 to 1999 at 15.5 percent (Table 9).

**Table 2. U.S. Electric Utility DSM Program Energy Savings by Class of Ownership, 1990 Through 1994, 1995 and 1999**  
(Million Kilowatthours)

Class of Ownership	Historical Savings					Projected Savings	
	1990	1991	1992	1993	1994	1995	1999
Investor-Owned .....	13,868	17,521	25,926	35,077	41,132	41,791	57,936
Publicly Owned .....	913	1,448	2,416	2,562	2,965	3,657	5,588
Cooperative .....	94	185	400	705	560	530	846
Federal .....	5,584	5,695	6,822	6,950	7,826	6,853	7,513
<b>U.S. Total .....</b>	<b>20,458</b>	<b>24,848</b>	<b>35,563</b>	<b>45,294</b>	<b>52,483</b>	<b>52,831</b>	<b>71,883</b>

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.

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

**Figure 4. The Top 25, 50, and 100 U.S. Electric Utilities with the Greatest DSM Program Energy Savings by Class of Ownership, 1994**

**Table 3. U.S. Electric Utility DSM Program Energy Savings by Program Category, 1993, 1994, 1995, and 1999**  
(Million Kilowatthours)

Program Category	Historical Savings	
	1993	1994
Energy Efficiency.....	41,119	49,720
Direct Load Control.....	319	170
Interruptible Load.....	2,119	969
Other Load Management.....	223	190
Other Demand-Side Management.....	1,514	1,434
<b>U.S. Total.....</b>	<b>45,294</b>	<b>52,483</b>
	Projected Savings	
	1995	1999
Energy Efficiency.....	51,221	69,825
Direct Load Control.....	188	232
Interruptible Load.....	206	246
Other Load Management.....	389	612
Other Demand-Side Management.....	827	969
<b>U.S. Total.....</b>	<b>52,831</b>	<b>71,883</b>

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours. •Totals may not equal sum of components because of independent rounding.

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

**Table 4. Number of U.S. Electric Utilities with DSM Energy Efficiency Programs by End Uses and Program Types by Sector, 1994**

ITEM	Sectors		
	Residential	Commercial	Industrial
<b>End Uses</b>			
Heating Systems .....	295	194	115
Cooling Systems .....	288	224	142
Water Heating .....	306	161	104
Lighting .....	188	222	178
Building Shell .....	204	128	91
New Construction .....	215	135	94
Appliances .....	129	70	42
Motors .....	--	149	158
Process Heating .....	--	55	96
Electrolytics .....	--	12	26
Other Systems .....	17	32	35
<b>Program Types</b>			
Energy Audits .....	325	265	199
Rebate .....	297	228	165
Loans .....	149	90	58
Other Incentives <sup>1</sup> .....	97	72	60
Other Programs .....	48	47	52

<sup>1</sup> This category reflects programs that offer cash or noncash awards to electric energy efficiency deliverers, such as appliance and equipment dealers, building contractors, and architectural and engineering firms, that encourage consumer participation in a demand-side management program and adoption of recommended measures.

Notes: •Data are final. •Data represent the total number of electric utilities that focus energy efficiency activities on specific end uses and program types.

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

**Table 5. U.S. Electric Utility DSM Program Energy Savings by Sector, 1993 and 1994**  
(Million Kilowatthours)

Sector	1993	1994
Residential .....	19,241	21,028
Commercial .....	16,567	21,773
Industrial .....	8,644	8,568
Other .....	842	1,114
<b>U.S. Total</b> .....	<b>45,294</b>	<b>52,483</b>

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours. •Totals may not equal sum of components because of independent rounding.

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

**Table 6. U.S. Electric Utility Incremental Energy Savings by Class of Ownership, 1993 and 1994**  
(Million Kilowatthours)

Class of Ownership	Large Utilities <sup>1</sup>		Small Utilities <sup>2</sup>		Total	
	1993	1994	1993	1994	1993	1994
Investor-Owned.....	7,639	6,966	*	1	7,639	6,967
Publicly Owned.....	528	585	14	13	543	598
Cooperative.....	211	76	7	4	219	80
Federal.....	601	602	0	0	601	602
<b>U.S. Total.....</b>	<b>8,980</b>	<b>8,229</b>	<b>22</b>	<b>18</b>	<b>9,002</b>	<b>8,247</b>

<sup>1</sup> Refers to electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours.

<sup>2</sup> Refers to electric utilities with sales to ultimate consumers and sales for resale less than 120,000 megawatt-hours.

\* Value less than 0.5.

Notes: •Data are final. •Totals may not equal sum of components because of independent rounding.

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

**Table 7. U.S. Electric Utility Incremental Energy Savings by Program Category, 1993 and 1994**  
(Million Kilowatthours)

Program Category	Large Utilities <sup>1</sup>		Small Utilities <sup>2</sup>		Total	
	1993	1994	1993	1994	1993	1994
Energy Efficiency.....	8,472	8,054	11	11	8,483	8,065
Direct Load Control.....	25	15	6	4	31	18
Interruptible Load.....	75	12	2	*	77	12
Other Load Management.....	19	7	1	2	20	9
Other Demand-Side Management.....	389	141	2	1	391	142
<b>U.S. Total.....</b>	<b>8,980</b>	<b>8,229</b>	<b>22</b>	<b>18</b>	<b>9,002</b>	<b>8,247</b>

<sup>1</sup> Refers to electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours.

<sup>2</sup> Refers to electric utilities with sales to ultimate consumers and sales for resale less than 120,000 megawatt-hours.

\* Value less than 0.5.

Notes: •Data are final. •Totals may not equal sum of components because of independent rounding.

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

**Table 8. U.S. Electric Utility Incremental Energy Savings by Sector, 1993 and 1994**  
(Million Kilowatthours)

Sector	Large Utilities <sup>1</sup>		Small Utilities <sup>2</sup>		Total	
	1993	1994	1993	1994	1993	1994
Residential.....	2,780	2,194	13	13	2,794	2,207
Commercial.....	4,557	4,449	4	3	4,561	4,451
Industrial.....	1,518	1,325	3	1	1,520	1,326
Other.....	125	262	2	1	127	263
<b>U.S. Total.....</b>	<b>8,980</b>	<b>8,229</b>	<b>22</b>	<b>18</b>	<b>9,002</b>	<b>8,247</b>

<sup>1</sup> Refers to electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours.

<sup>2</sup> Refers to electric utilities with sales to ultimate consumers and sales for resale less than 120,000 megawatt-hours.

Notes: •Data are final. •Totals may not equal sum of components because of independent rounding.

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

**Table 9. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Million Kilowatthours)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1993	1994	1995	1999
<b>ECAR</b>					
American Mun Power-Ohio Inc.....	Publicly Owned	*	1	1	2
Appalachian Power Co.....	Investor-Owned	40	77	79	188
Cincinnati Gas & Electric Co.....	Investor-Owned	6	47	139	541
Cleveland Electric Illum Co.....	Investor-Owned	19	33	47	47
Columbus Southern Power Co.....	Investor-Owned	26	46	55	126
Consumers Power Co.....	Investor-Owned	280	350	557	434
Crawfordsville Elec Lgt&Pwr Co.....	Publicly Owned	*	*	*	1
Dayton Power & Light Co.....	Investor-Owned	90	—	—	—
Detroit Edison Co.....	Investor-Owned	149	170	145	252
East Kentucky Power Coop Inc.....	Cooperative	-1	2	4	13
Indiana Michigan Power Co.....	Investor-Owned	4	17	16	37
Indiana Municipal Power Agency.....	Publicly Owned	—	0	*	18
Indianapolis Power & Light Co.....	Investor-Owned	41	50	66	163
Kentucky Power Co.....	Investor-Owned	6	17	20	68
Kentucky Utilities Co.....	Investor-Owned	37	39	47	72
Kingsport Power Co.....	Investor-Owned	4	6	7	12
Lansing City of.....	Publicly Owned	0	*	1	1
Louisville Gas & Electric Co.....	Investor-Owned	16	3	3	4
Monongahela Power Co.....	Investor-Owned	217	236	243	298
Ohio Edison Co.....	Investor-Owned	61	103	81	183
Ohio Power Co.....	Investor-Owned	18	40	40	40
Owen Electric Coop Inc.....	Cooperative	1	1	1	3
Pennsylvania Power Co.....	Investor-Owned	0	0	5	72
Potomac Edison Co.....	Investor-Owned	314	390	423	511
PSI Energy Inc.....	Investor-Owned	141	275	550	1,550
Southern Indiana Gas & Elec Co.....	Investor-Owned	16	37	60	163
Toledo Edison Co.....	Investor-Owned	16	27	38	38
Utilities Dist-Western IN REMC.....	Cooperative	12	—	—	—
Virginia Tech Electric Service.....	Publicly Owned	*	—	—	—
West Penn Power Co.....	Investor-Owned	263	268	278	340
Wheeling Power Co.....	Investor-Owned	1	2	2	3
<b>ECAR Total.....</b>		<b>1,779</b>	<b>2,237</b>	<b>2,908</b>	<b>5,177</b>
<b>ERCOT</b>					
Austin City of.....	Publicly Owned	448	518	618	989
Brazos Electric Power Coop Inc.....	Cooperative	6	12	12	44
Bryan City of.....	Publicly Owned	8	9	11	17
Central Power & Light Co.....	Investor-Owned	185	198	177	302
College Station City of.....	Publicly Owned	—	1	1	1
Georgetown City of.....	Publicly Owned	1	—	—	—
Greenville Electric Util Sys.....	Publicly Owned	*	*	*	4
Houston Lighting & Power Co.....	Investor-Owned	130	181	35	58
Johnson County Elec Coop Assn.....	Cooperative	4	5	1	4
Lower Colorado River Authority.....	Publicly Owned	105	123	275	0
Magic Valley Electric Coop Inc.....	Cooperative	2	2	2	2
San Bernard Electric Coop Inc.....	Cooperative	*	*	*	*
San Marcos City of.....	Publicly Owned	11	11	11	11
Texas Utilities Electric Co.....	Investor-Owned	1,221	2,532	19	445
Texas-New Mexico Power Co.....	Investor-Owned	105	93	94	111
Tri-County Electric Coop Inc.....	Cooperative	1	2	3	4
West Texas Utilities Co.....	Investor-Owned	62	53	54	108
<b>ERCOT Total.....</b>		<b>2,288</b>	<b>3,739</b>	<b>1,310</b>	<b>2,099</b>
<b>MAAC</b>					
A & N Electric Coop.....	Cooperative	1	1	1	1
Adams Electric Coop Inc.....	Cooperative	1	0	0	0
Atlantic City Electric Co.....	Investor-Owned	65	65	59	1
Baltimore Gas & Electric Co.....	Investor-Owned	190	375	537	755
Bedford Rural Elec Coop Inc.....	Cooperative	*	*	*	*
Conowingo Power Co.....	Investor-Owned	4	4	0	0
Delmarva Power & Light Co.....	Investor-Owned	46	74	59	110
Easton Utilities Comm.....	Publicly Owned	*	*	1	9
Jersey Central Power&Light Co.....	Investor-Owned	106	118	160	320
Metropolitan Edison Co.....	Investor-Owned	81	82	86	86
Pennsylvania Electric Co.....	Investor-Owned	75	41	11	76
Pennsylvania Power & Light Co.....	Investor-Owned	29	25	26	39
Potomac Electric Power Co.....	Investor-Owned	431	817	950	1,939
Public Service Electric&Gas Co.....	Investor-Owned	57	144	428	1,535

See footnotes at end of table.

**Table 9. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1993	1994	1995	1999
<b>MAAC (Continued)</b>					
PECO Energy Co.....	Investor-Owned	60	68	68	71
Southern Maryland El Coop Inc.....	Cooperative	4	8	23	82
Southwest Central R E C Corp.....	Cooperative	0	*	*	1
UGI Utilities Inc.....	Investor-Owned	*	*	*	1
Valley Rural Electric Coop Inc.....	Cooperative	0	0	5	5
<b>MAAC Total.....</b>		<b>1,150</b>	<b>1,820</b>	<b>2,414</b>	<b>5,030</b>
<b>MAIN</b>					
Central Illinois Light Co.....	Investor-Owned	*	*	0	26
Coles-Moultrie Electric Coop.....	Cooperative	*	*	*	*
Columbia City of.....	Publicly Owned	4	5	6	10
Commonwealth Edison Co.....	Investor-Owned	2	1	0	0
Eastern Illini Electric Coop.....	Cooperative	3	3	3	3
Illinois Power Co.....	Investor-Owned	34	0	0	0
Madison Gas & Electric Co.....	Investor-Owned	90	138	175	301
Manitowoc Public Utilities.....	Publicly Owned	9	12	1	1
Marshfield City of.....	Publicly Owned	2	4	5	10
Southeastern IL Elec Coop Inc.....	Cooperative	124	*	*	1
Southwestern Electric Coop Inc.....	Cooperative	29	*	*	1
Springfield City of.....	Publicly Owned	6	8	11	25
Union Electric Co.....	Investor-Owned	0	11	11	456
Wisconsin Electric Power Co.....	Investor-Owned	1,286	1,567	1,623	2,065
Wisconsin Power & Light Co.....	Investor-Owned	197	275	347	598
Wisconsin Public Power Inc Sys.....	Publicly Owned	16	22	28	49
Wisconsin Public Service Corp.....	Investor-Owned	322	405	521	909
<b>MAIN Total.....</b>		<b>2,125</b>	<b>2,453</b>	<b>2,731</b>	<b>4,454</b>
<b>MAPP(U.S.)</b>					
Ames City of.....	Publicly Owned	1	1	1	3
Anoka City of.....	Publicly Owned	0	*	*	1
Austin City of.....	Publicly Owned	*	1	1	4
Barron Electric Coop.....	Cooperative	*	3	*	*
Beatrice City of.....	Publicly Owned	*	*	*	*
Cass County Electric Coop Inc.....	Cooperative	2	1	2	3
Cedar Falls City of.....	Publicly Owned	19	1	1	1
Central Iowa Power Coop.....	Cooperative	48	1	1	1
Central Power Elec Coop Inc.....	Cooperative	*	*	*	*
Clark Electric Coop.....	Cooperative	*	*	*	*
Coop Power Assn.....	Cooperative	10	24	50	125
Cornhusker Public Power Dist.....	Publicly Owned	*	*	*	*
Fairmont Public Utilities Comm.....	Publicly Owned	1	*	1	2
Freeborn-Mower Electric Coop.....	Cooperative	*	—	—	—
Grant-Lafayette Electric Coop.....	Cooperative	1	1	1	3
Interstate Power Co.....	Investor-Owned	34	60	93	164
Iowa Lakes Electric Coop.....	Cooperative	38	6	8	13
Iowa-Illinois Gas&Electric Co.....	Investor-Owned	0	15	25	88
IES Utilities Inc.....	Investor-Owned	21	45	146	443
Lincoln Electric System.....	Publicly Owned	14	15	18	24
Marshall City of.....	Publicly Owned	*	*	*	*
Midland Power Coop.....	Cooperative	6	*	6	7
Midwest Power Systems Inc.....	Investor-Owned	105	152	198	351
Minnesota Power & Light Co.....	Investor-Owned	27	65	102	373
Minnkota Power Coop Inc.....	Cooperative	7	0	0	0
Moorhead City of.....	Publicly Owned	*	*	1	2
Mountrail-Williams El Coop Inc.....	Cooperative	14	9	10	10
Municipal Energy Agency of NE.....	Publicly Owned	1	1	1	3
Muscatine City of.....	Publicly Owned	2	4	4	4
Nodak Electric Coop Inc.....	Cooperative	2	1	2	2
North Platte City of.....	Publicly Owned	*	*	*	*
Northern States Power Co of MN.....	Investor-Owned	1,009	1,022	1,382	2,123
Northern States Power Co of WI.....	Investor-Owned	86	280	327	473
Northwest Iowa Power Coop.....	Cooperative	6	10	11	17
Northwestern Wisconsin Elec Co.....	Investor-Owned	—	1	1	1
Oakdale Electric Coop.....	Cooperative	*	*	*	*
Omaha Public Power District.....	Publicly Owned	1	5	23	89
Otter Tail Power Co.....	Investor-Owned	38	57	36	38
Owatonna City of.....	Publicly Owned	1	1	*	*

See footnotes at end of table.



**Table 9. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1993	1994	1995	1999
<b>MAPP(U.S.) (Continued)</b>					
Pella City of .....	Publicly Owned	2	—	—	—
People 's Coop Power Assn .....	Cooperative	*	*	*	*
Rice Lake Utilities .....	Publicly Owned	—	1	2	3
Rochester Public Utilities .....	Publicly Owned	*	*	*	1
Runestone Electric Assn .....	Cooperative	2	—	—	—
Shakopee Public Utilities Comm .....	Publicly Owned	*	*	*	*
Spencer City of .....	Publicly Owned	—	3	3	6
Superior Water Light&Power Co.....	Investor-Owned	2	15	2	2
Tri-County Electric Coop .....	Cooperative	*	*	1	1
United Power Assn .....	Cooperative	23	24	29	41
Verendrye Electric Coop Inc.....	Cooperative	*	0	0	0
Vernon Electric Coop .....	Cooperative	*	*	*	*
Wild Rice Electric Coop Inc.....	Cooperative	56	55	54	58
<b>MAPP(U.S.) Total.....</b>		<b>1,581</b>	<b>1,883</b>	<b>2,545</b>	<b>4,480</b>
<b>NPCC(U.S.)</b>					
Bangor Hydro-Electric Co.....	Investor-Owned	38	42	54	67
Blackstone Valley Electric Co .....	Investor-Owned	61	0	0	0
Boston Edison Co.....	Investor-Owned	382	384	125	125
Braintree Town of.....	Publicly Owned	*	*	*	20
Burlington City of.....	Publicly Owned	9	29	34	34
Cambridge Electric Light Co .....	Investor-Owned	71	70	47	47
Central Hudson Gas & Elec Corp .....	Investor-Owned	97	119	155	223
Central Maine Power Co.....	Investor-Owned	390	399	444	444
Central Vermont Pub Serv Corp.....	Investor-Owned	41	60	60	60
Chicopee City of.....	Publicly Owned	4	5	6	9
Citizens Utilities Co .....	Investor-Owned	2	5	7	85
Commonwealth Electric Co .....	Investor-Owned	121	118	81	81
Concord Electric Co .....	Investor-Owned	1	3	5	15
Connecticut Light & Power Co .....	Investor-Owned	1,160	1,244	1,273	1,629
Connecticut Valley Elec Co Inc.....	Investor-Owned	2	3	1	1
Consolidated Edison Co-NY Inc.....	Investor-Owned	498	1,624	1,928	2,759
Eastern Edison Co .....	Investor-Owned	94	0	0	0
Exeter & Hampton Electric Co .....	Investor-Owned	1	4	6	16
Fitchburg Gas & Elec Light Co.....	Investor-Owned	8	8	11	24
Granite State Electric Co.....	Investor-Owned	28	32	37	59
Green Mountain Power Corp .....	Investor-Owned	30	44	61	120
Hingham City of .....	Publicly Owned	4	4	4	4
Holyoke City of .....	Publicly Owned	*	*	*	*
Jamestown City of .....	Publicly Owned	*	*	6	6
Littleton Town of.....	Publicly Owned	*	*	*	*
Long Island Lighting Co .....	Investor-Owned	580	698	754	1,150
Maine Public Service Co.....	Investor-Owned	5	7	7	9
Massachusetts Electric Co.....	Investor-Owned	549	658	797	1,293
Massena Town of .....	Publicly Owned	1	0	1	2
Montaup Electric Co.....	Investor-Owned	170	168	175	263
Narragansett Electric Co.....	Investor-Owned	181	209	242	344
New England Power Co.....	Investor-Owned	0	*	0	0
New Hampshire Elec Coop Inc .....	Cooperative	7	1	2	7
New York State Elec & Gas Corp.....	Investor-Owned	695	537	569	569
Newport Electric Corp.....	Investor-Owned	15	—	—	—
Niagara Mohawk Power Corp.....	Investor-Owned	737	962	1,127	1,871
North Attleborough Town of .....	Publicly Owned	—	*	*	*
Norwood City of.....	Publicly Owned	1	3	1	4
Omya Inc.....	Investor-Owned	*	*	*	*
Orange & Rockland Utils Inc .....	Investor-Owned	167	194	215	265
Power Authority of State of NY.....	Publicly Owned	81	138	196	634
Public Service Co of NH .....	Investor-Owned	1	2	5	57
Reading Town of.....	Publicly Owned	*	*	*	*
Rochester Gas & Electric Corp.....	Investor-Owned	183	204	285	365
Shrewsbury Town of .....	Publicly Owned	1	3	1	11
Taunton City of.....	Publicly Owned	16	11	13	18
United Illuminating Co.....	Investor-Owned	137	192	130	200
Western Massachusetts Elec Co.....	Investor-Owned	202	236	253	410
<b>NPCC(U.S.) Total.....</b>		<b>6,769</b>	<b>8,422</b>	<b>9,118</b>	<b>13,303</b>

See footnotes at end of table.

**Table 9. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1993	1994	1995	1999
<b>SERC</b>					
Aiken Electric Coop Inc.....	Cooperative	1	1	2	3
Alabama Electric Coop Inc.....	Cooperative	24	30	37	37
Alabama Power Co.....	Investor-Owned	449	458	494	637
Albemarle City of.....	Publicly Owned	*	*	*	*
Altamaha Electric Member Corp.....	Cooperative	*	*	*	*
Amicalola Electric Member Corp.....	Cooperative	*	*	*	*
Berkeley Electric Coop Inc.....	Cooperative	4	5	4	6
Black River Electric Coop Inc.....	Cooperative	2	2	2	4
Brunswick Electric Member Corp.....	Cooperative	*	*	*	*
BARC Electric Coop Inc.....	Cooperative	*	*	*	*
Canoochee Electric Member Corp.....	Cooperative	*	*	*	*
Carolina Power & Light Co.....	Investor-Owned	2,062	1,969	2,430	2,803
Carroll Electric Member Corp.....	Cooperative	1	2	2	2
Central Electric Member Corp.....	Cooperative	*	—	—	—
Central Electric Pwr Coop Inc.....	Cooperative	14	—	—	—
Central Georgia El Member Corp.....	Cooperative	2	3	4	6
Central Virginia Electric Coop.....	Cooperative	—	1	1	2
Choctawhatche Elec Coop Inc.....	Cooperative	—	4	5	5
Coast Electric Power Assn.....	Cooperative	*	—	—	—
Coastal Electric Member Corp.....	Cooperative	1	1	1	1
Cobb Electric Membership Corp.....	Cooperative	16	19	2	2
Colquitt Electric Members Corp.....	Cooperative	2	*	*	1
Community Electric Coop.....	Cooperative	*	*	*	*
Coweta-Fayette El Member Corp.....	Cooperative	57	60	61	68
Crescent Electric Member Corp.....	Cooperative	1	1	1	1
Douglas City of.....	Publicly Owned	1	1	1	2
Duke Power Co.....	Investor-Owned	74	132	21	351
East Point City of.....	Publicly Owned	0	4	4	5
Excelsior Electric Member Corp.....	Cooperative	*	0	0	0
Fairfield Electric Coop Inc.....	Cooperative	*	1	1	1
Fayetteville Public Works Comm.....	Publicly Owned	*	*	*	*
Fitzgerald Wtr Lgt & Bond Comm.....	Publicly Owned	*	*	*	*
Flint Electric Membership Corp.....	Cooperative	4	1	2	3
Florida Keys El Coop Assn Inc.....	Cooperative	*	*	*	*
Florida Power & Light Co.....	Investor-Owned	2,738	2,986	3,137	3,893
Florida Power Corp.....	Investor-Owned	989	983	1,021	1,218
Fort Pierce Utilities Auth.....	Publicly Owned	1	1	1	1
Four County Elec Member Corp.....	Cooperative	1	—	—	—
Gainesville Regional Utilities.....	Publicly Owned	65	66	68	83
Georgia Power Co.....	Investor-Owned	134	211	247	527
Grady County Elec Member Corp.....	Cooperative	*	*	*	*
Greenville Utilities Comm.....	Publicly Owned	14	15	16	20
GreyStone Power Corp.....	Cooperative	0	0	1	1
Gulf Power Co.....	Investor-Owned	418	428	449	544
Harrisonburg City of.....	Publicly Owned	0	0	*	*
Haywood Electric Member Corp.....	Cooperative	*	*	*	*
Jackson Electric Member Corp.....	Cooperative	11	11	11	11
Jacksonville Electric Auth.....	Publicly Owned	108	106	112	136
Jefferson Electric Member Corp.....	Cooperative	*	*	*	1
Jones-Onslow Elec Member Corp.....	Cooperative	2	4	5	7
Kissimmee Utility Authority.....	Publicly Owned	4	5	7	11
Lakeland City of.....	Publicly Owned	1	1	1	1
Laurens Electric Coop Inc.....	Cooperative	*	*	*	*
Laurinburg City of.....	Publicly Owned	*	*	*	*
Lawrenceville City of.....	Publicly Owned	*	*	*	*
Lee County Electric Coop Inc.....	Cooperative	21	21	23	30
Leesburg City of.....	Publicly Owned	*	*	*	*
Lumbee River Elec Member Corp.....	Cooperative	2	—	—	—
Lumberton City of.....	Publicly Owned	*	*	*	*
Lynches River Elec Coop Inc.....	Cooperative	1	*	*	*
Manassas City of.....	Publicly Owned	3	2	5	5
Marietta City of.....	Publicly Owned	2	*	0	0
Mecklenburg Electric Coop Inc.....	Cooperative	6	*	*	*
Mid-Carolina Electric Coop Inc.....	Cooperative	2	3	4	7
Mississippi Power Co.....	Investor-Owned	1	1	1	1
Mitchell Electric Member Corp.....	Cooperative	*	*	1	1
Monroe City of.....	Publicly Owned	*	1	1	2

See footnotes at end of table.

**Table 9. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1993	1994	1995	1999
<b>SERC (Continued)</b>					
Municipal Electric Authority.....	Publicly Owned	0	1	2	8
New Bern City of.....	Publicly Owned	*	*	6	1
Northern Neck Elec Coop Inc.....	Cooperative	*	*	*	*
Northern Virginia Elec Coop.....	Cooperative	1	1	1	1
Ocala City of.....	Publicly Owned	9	5	4	7
Orangeburg City of.....	Publicly Owned	*	*	1	1
Orlando Utilities Comm.....	Publicly Owned	74	82	80	99
Palmetto Electric Coop Inc.....	Cooperative	1	2	2	3
Planters Electric Member Corp.....	Cooperative	0	*	0	0
Randolph Electric Member Corp.....	Cooperative	*	—	—	—
Rayle Electric Membership Corp.....	Cooperative	*	*	*	*
Reedy Creek Improvement Dist.....	Publicly Owned	5	5	6	6
Rock Hill City of.....	Publicly Owned	1	*	*	*
Satilla Rural Elec Member Corp.....	Cooperative	*	*	*	*
Savannah Electric & Power Co.....	Investor-Owned	1	8	15	40
Sawnee Electric Members Corp.....	Cooperative	1	1	1	2
Shenandoah Valley Elec Coop.....	Cooperative	1	2	2	2
Singing River Elec Power Assn.....	Cooperative	2	3	3	3
South Carolina Electric&Gas Co.....	Investor-Owned	179	168	193	323
South Carolina Pub Serv Auth.....	Publicly Owned	24	31	38	75
South Mississippi El Pwr Assn.....	Cooperative	13	128	23	38
Sumter Electric Coop Inc.....	Cooperative	17	18	20	24
Tallahassee City of.....	Publicly Owned	83	100	3	21
Tampa Electric Co.....	Investor-Owned	162	169	179	219
Tennessee Valley Authority.....	Federal	3,266	3,321	3,377	3,599
Thomasville City of.....	Publicly Owned	19	*	*	*
Tri-County Elec Member Corp.....	Cooperative	—	*	7	10
Tri-County Elec Member Corp.....	Cooperative	*	*	*	*
Vero Beach City of.....	Publicly Owned	—	6	6	7
Virginia Electric & Power Co.....	Investor-Owned	160	167	177	103
Wake Electric Membership Corp.....	Cooperative	3	3	3	3
Walton Electric Member Corp.....	Cooperative	*	2	3	*
Wilson City of.....	Publicly Owned	—	0	*	*
Withlacoochee River Elec Coop.....	Cooperative	2	2	*	*
York Electric Coop Inc.....	Cooperative	1	1	1	1
<b>SERC Total</b> .....		<b>11,264</b>	<b>11,768</b>	<b>12,339</b>	<b>15,036</b>
<b>SPP</b>					
Central Rural Electric Coop.....	Cooperative	2	2	2	2
Craighead Electric Coop Corp.....	Cooperative	*	*	*	*
Duncan City of.....	Publicly Owned	0	*	*	*
First Electric Coop Corp.....	Cooperative	4	4	5	6
Gulf States Utilities Co.....	Investor-Owned	21	132	132	132
Independence City of.....	Publicly Owned	2	2	3	5
Kansas City City of.....	Publicly Owned	—	*	*	*
Kansas Electric Power Coop Inc.....	Cooperative	2	2	1	1
New Orleans Public Service Inc.....	Investor-Owned	—	25	25	74
North Arkansas Elec Coop Inc.....	Cooperative	*	*	*	*
Northeast Louisiana Power Coop.....	Cooperative	-5	7	7	9
Oklahoma Gas & Electric Co.....	Investor-Owned	124	124	124	121
Ozark Electric Coop Inc.....	Cooperative	7	6	12	18
Petit Jean Electric Coop Corp.....	Cooperative	*	*	*	*
Public Service Co of Oklahoma.....	Investor-Owned	0	0	1	1
Red River Valley Rrl Elec Assn.....	Cooperative	10	9	9	3
South Central Ark El Coop Inc.....	Cooperative	*	3	2	3
South Plains Electric Coop Inc.....	Cooperative	46	8	8	23
Southwestern Electric Power Co.....	Investor-Owned	22	27	23	49
Southwestern Public Service Co.....	Investor-Owned	129	141	174	245
Stillwater Utilities Authority.....	Publicly Owned	—	*	*	*
<b>SPP Total</b> .....		<b>365</b>	<b>492</b>	<b>528</b>	<b>691</b>
<b>WSCC(U.S.)</b>					
Alameda City of.....	Publicly Owned	6	7	8	8
Anaheim City of.....	Publicly Owned	*	24	48	55
Arizona Electric Pwr Coop Inc.....	Cooperative	2	2	3	20
Arizona Public Service Co.....	Investor-Owned	493	515	562	673
Black Hills Corp.....	Investor-Owned	4	—	—	—

See footnotes at end of table.

**Table 9. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1993	1994	1995	1999
<b>WSCC(U.S.) (Continued)</b>					
Bonneville Power Admin.....	Federal	3,685	4,505	3,476	3,914
Boulder City City of.....	Publicly Owned	—	1	2	2
Bountiful City City of.....	Publicly Owned	*	*	1	1
Columbia River Peoples Ut Dist.....	Publicly Owned	—	2	*	1
El Paso Electric Co.....	Investor-Owned	32	39	79	136
Ellensburg City of.....	Publicly Owned	—	14	15	18
Eugene City of.....	Publicly Owned	—	183	195	300
Idaho Power Co.....	Investor-Owned	87	138	166	244
Imperial Irrigation District.....	Publicly Owned	48	6	7	13
Longmont City of.....	Publicly Owned	33	19	23	28
Los Angeles City of.....	Publicly Owned	210	228	252	296
Loveland City of.....	Publicly Owned	*	*	*	*
Modesto Irrigation District.....	Publicly Owned	5	12	14	24
Montana Power Co.....	Investor-Owned	118	175	200	325
Navopache Electric Coop Inc.....	Cooperative	2	1	1	1
Nevada Power Co.....	Investor-Owned	150	157	188	284
Overton Power District No 5.....	Publicly Owned	*	4	4	10
Pacific Gas & Electric Co.....	Investor-Owned	1,610	1,882	2,172	3,004
PacifiCorp.....	Investor-Owned	678	571	202	359
Palo Alto City of.....	Publicly Owned	10	11	11	11
Pasadena City of.....	Publicly Owned	7	12	15	20
Portland General Electric Co.....	Investor-Owned	313	470	175	67
Provo City Corp.....	Publicly Owned	—	2	3	5
Public Service Co of Colorado.....	Investor-Owned	1,071	247	202	341
Puget Sound Power & Light Co.....	Investor-Owned	1,490	1,680	1,821	2,357
PUD No 2 of Grant County.....	Publicly Owned	—	7	221	371
Redding City of.....	Publicly Owned	83	*	*	*
Riverside City of.....	Publicly Owned	10	11	11	14
Roseville City of.....	Publicly Owned	1	3	5	14
Sacramento Municipal Util Dist.....	Publicly Owned	269	426	559	764
Salt River Proj Ag I & P Dist.....	Publicly Owned	41	66	47	206
San Diego Gas & Electric Co.....	Investor-Owned	134	154	96	135
Santa Clara City of.....	Publicly Owned	50	1	1	1
Seattle City of.....	Publicly Owned	334	406	473	780
Sierra Pacific Power Co.....	Investor-Owned	152	193	226	27
Southern California Edison Co.....	Investor-Owned	6,113	6,770	6,702	5,522
Springfield City of.....	Publicly Owned	54	63	10	11
Sulphur Springs Valley E C Inc.....	Cooperative	*	1	1	2
Tacoma City of.....	Publicly Owned	183	64	72	104
Trico Electric Coop Inc.....	Cooperative	*	*	*	*
Tucson Electric Power Co.....	Investor-Owned	47	65	87	166
Turlock Irrigation District.....	Publicly Owned	5	10	3	2
United Power Inc.....	Cooperative	—	-2	-2	-2
Vera Irrigation District # 15.....	Publicly Owned	1	1	1	1
Vernon City of.....	Publicly Owned	23	3	3	4
Washington Water Power Co.....	Investor-Owned	391	479	523	619
Yellowstone Vily Elec Coop Inc.....	Cooperative	5	6	7	12
<b>WSCC(U.S.) Total.....</b>		<b>17,954</b>	<b>19,634</b>	<b>18,893</b>	<b>21,267</b>
<b>Contiguous U.S.....</b>		<b>45,275</b>	<b>52,449</b>	<b>52,783</b>	<b>71,536</b>
<b>ASCC</b>					
Alaska Electric Light&Power Co.....	Investor-Owned	*	*	*	*
Golden Valley Elec Assn Inc.....	Cooperative	2	3	5	11
<b>ASCC Total.....</b>		<b>2</b>	<b>3</b>	<b>5</b>	<b>11</b>
<b>Hawaii</b>					
Hawaii Electric Light Co Inc.....	Investor-Owned	2	3	3	39
Hawaiian Electric Co Inc.....	Investor-Owned	10	11	20	236
Maui Electric Co Ltd.....	Investor-Owned	5	17	19	61
<b>Hawaii Total.....</b>		<b>17</b>	<b>31</b>	<b>42</b>	<b>336</b>
<b>U.S. Total.....</b>		<b>45,294</b>	<b>52,483</b>	<b>52,831</b>	<b>71,883</b>

\* Value less than 0.5.

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours. •Totals may not equal sum of components because of independent rounding.

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

**Table 10. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Million Kilowatthours)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management <sup>1</sup>	Total DSM Programs
<b>ECAR</b>			
American Mun Power-Ohio Inc.....	0	1	1
Appalachian Power Co.....	65	12	77
Cincinnati Gas & Electric Co.....	47	0	47
Cleveland Electric Illum Co.....	32	1	33
Columbus Southern Power Co.....	45	*	46
Consumers Power Co.....	350	0	350
Crawfordsville Elec Lgt&Pwr Co.....	*	0	*
Detroit Edison Co.....	170	*	170
East Kentucky Power Coop Inc.....	15	-13	2
Indiana Michigan Power Co.....	16	1	17
Indianapolis Power & Light Co.....	5	45	50
Kentucky Power Co.....	17	1	17
Kentucky Utilities Co.....	39	*	39
Kingsport Power Co.....	6	0	6
Lansing City of.....	*	0	*
Louisville Gas & Electric Co.....	0	3	3
Monongahela Power Co.....	236	0	236
Ohio Edison Co.....	103	*	103
Ohio Power Co.....	33	7	40
Owen Electric Coop Inc.....	1	0	1
Potomac Edison Co.....	390	0	390
PSI Energy Inc.....	274	1	275
Southern Indiana Gas & Elec Co.....	34	4	37
Toledo Edison Co.....	25	2	27
West Penn Power Co.....	271	-3	268
Wheeling Power Co.....	2	0	2
<b>ECAR Total</b> .....	<b>2,175</b>	<b>61</b>	<b>2,237</b>
<b>ERCOT</b>			
Austin City of.....	518	*	518
Brazos Electric Power Coop Inc.....	12	0	12
Bryan City of.....	9	*	9
Central Power & Light Co.....	139	60	198
College Station City of.....	1	0	1
Greenville Electric Util Sys.....	0	*	*
Houston Lighting & Power Co.....	186	-5	181
Johnson County Elec Coop Assn.....	5	0	5
Lower Colorado River Authority.....	123	0	123
Magic Valley Electric Coop Inc.....	2	0	2
San Bernard Electric Coop Inc.....	*	0	*
San Marcos City of.....	11	*	11
Texas Utilities Electric Co.....	2,532	0	2,532
Texas-New Mexico Power Co.....	41	51	93
Tri-County Electric Coop Inc.....	2	0	2
West Texas Utilities Co.....	8	45	53
<b>ERCOT Total</b> .....	<b>3,588</b>	<b>151</b>	<b>3,739</b>
<b>MAAC</b>			
A & N Electric Coop.....	1	0	1
Atlantic City Electric Co.....	63	2	65
Baltimore Gas & Electric Co.....	375	0	375
Bedford Rural Elec Coop Inc.....	0	*	*
Conowingo Power Co.....	2	2	4
Delmarva Power & Light Co.....	74	0	74
Easton Utilities Comm.....	*	0	*
Jersey Central Power&Light Co.....	118	0	118
Metropolitan Edison Co.....	62	20	82
Pennsylvania Electric Co.....	41	0	41
Pennsylvania Power & Light Co.....	19	6	25
Potomac Electric Power Co.....	691	125	817
Public Service Electric&Gas Co.....	144	0	144
PECO Energy Co.....	37	31	68
Southern Maryland El Coop Inc.....	8	0	8
Southwest Central R E C Corp.....	0	*	*
UGI Utilities Inc.....	*	0	*
<b>MAAC Total</b> .....	<b>1,634</b>	<b>186</b>	<b>1,820</b>

See footnotes at end of table.

**Table 10. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management <sup>1</sup>	Total DSM Programs
<b>MAIN</b>			
Central Illinois Light Co.....	0	*	*
Coles-Moultrie Electric Coop.....	0	*	*
Columbia City of.....	5	0	5
Commonwealth Edison Co.....	1	0	1
Eastern Illini Electric Coop.....	1	2	3
Madison Gas & Electric Co.....	138	0	138
Manitowoc Public Utilities.....	12	0	12
Marshfield City of.....	4	0	4
Southeastern IL Elec Coop Inc.....	0	*	*
Southwestern Electric Coop Inc.....	0	*	*
Springfield City of.....	8	0	8
Union Electric Co.....	0	11	11
Wisconsin Electric Power Co.....	1,553	14	1,567
Wisconsin Power & Light Co.....	275	0	275
Wisconsin Public Power Inc Sys.....	22	1	22
Wisconsin Public Service Corp.....	403	2	405
<b>MAIN Total.....</b>	<b>2,423</b>	<b>30</b>	<b>2,453</b>
<b>MAPP(U.S.)</b>			
Ames City of.....	1	0	1
Anoka City of.....	*	0	*
Austin City of.....	*	*	1
Barron Electric Coop.....	*	3	3
Beatrice City of.....	0	*	*
Cass County Electric Coop Inc.....	1	1	1
Cedar Falls City of.....	1	0	1
Central Iowa Power Coop.....	*	*	1
Central Power Elec Coop Inc.....	0	*	*
Clark Electric Coop.....	*	0	*
Coop Power Assn.....	24	0	24
Cornhusker Public Power Dist.....	0	*	*
Fairmont Public Utilities Comm.....	*	0	*
Grant-Lafayette Electric Coop.....	*	*	1
Interstate Power Co.....	60	0	60
Iowa Lakes Electric Coop.....	6	1	6
Iowa-Illinois Gas&Electric Co.....	15	0	15
IES Utilities Inc.....	62	-17	45
Lincoln Electric System.....	15	0	15
Marshall City of.....	*	*	*
Midland Power Coop.....	*	0	*
Midwest Power Systems Inc.....	151	2	152
Minnesota Power & Light Co.....	65	0	65
Moorhead City of.....	*	*	*
Mountrail-Williams El Coop Inc.....	1	8	9
Municipal Energy Agency of NE.....	1	*	1
Muscatine City of.....	4	0	4
Nodak Electric Coop Inc.....	0	1	1
North Platte City of.....	0	*	*
Northern States Power Co of MN.....	1,007	15	1,022
Northern States Power Co of WI.....	238	42	280
Northwest Iowa Power Coop.....	10	0	10
Northwestern Wisconsin Elec Co.....	1	0	1
Oakdale Electric Coop.....	*	0	*
Omaha Public Power District.....	5	0	5
Otter Tail Power Co.....	53	3	57
Owatonna City of.....	0	1	1
People 's Coop Power Assn.....	*	0	*
Rice Lake Utilities.....	1	0	1
Rochester Public Utilities.....	0	*	*
Shakopee Public Utilities Comm.....	0	*	*
Spencer City of.....	3	0	3
Superior Water Light&Power Co.....	15	0	15
Tri-County Electric Coop.....	*	*	*
United Power Assn.....	7	18	24

See footnotes at end of table.

**Table 10. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management <sup>1</sup>	Total DSM Programs
<b>MAPP(U.S.) (Continued)</b>			
Vernon Electric Coop.....	*	*	*
Wild Rice Electric Coop Inc.....	0	55	55
<b>MAPP(U.S.) Total</b> .....	<b>1,748</b>	<b>134</b>	<b>1,883</b>
<b>NPCC(U.S.)</b>			
Bangor Hydro-Electric Co.....	42	0	42
Boston Edison Co.....	384	*	384
Braintree Town of.....	0	*	*
Burlington City of.....	29	0	29
Cambridge Electric Light Co.....	70	*	70
Central Hudson Gas & Elec Corp.....	119	*	119
Central Maine Power Co.....	399	0	399
Central Vermont Pub Serv Corp.....	60	0	60
Chicopee City of.....	5	0	5
Citizens Utilities Co.....	5	0	5
Commonwealth Electric Co.....	118	*	118
Concord Electric Co.....	3	0	3
Connecticut Light & Power Co.....	1,243	1	1,244
Connecticut Valley Elec Co Inc.....	3	0	3
Consolidated Edison Co-NY Inc.....	1,622	1	1,624
Exeter & Hampton Electric Co.....	4	0	4
Fitchburg Gas & Elec Light Co.....	8	0	8
Granite State Electric Co.....	32	0	32
Green Mountain Power Corp.....	44	0	44
Hingham City of.....	*	3	4
Holyoke City of.....	*	0	*
Jamestown City of.....	*	*	*
Littleton Town of.....	*	*	*
Long Island Lighting Co.....	698	0	698
Maine Public Service Co.....	6	1	7
Massachusetts Electric Co.....	658	0	658
Montaup Electric Co.....	168	0	168
Narragansett Electric Co.....	209	0	209
New England Power Co.....	0	*	*
New Hampshire Elec Coop Inc.....	0	1	1
New York State Elec & Gas Corp.....	537	0	537
Niagara Mohawk Power Corp.....	962	0	962
North Attleborough Town of.....	*	0	*
Norwood City of.....	3	0	3
Omya Inc.....	*	0	*
Orange & Rockland Utils Inc.....	191	2	194
Power Authority of State of NY.....	138	0	138
Public Service Co of NH.....	2	0	2
Reading Town of.....	*	*	*
Rochester Gas & Electric Corp.....	203	1	204
Shrewsbury Town of.....	3	0	3
Taunton City of.....	11	0	11
United Illuminating Co.....	183	8	192
Western Massachusetts Elec Co.....	236	*	236
<b>NPCC(U.S.) Total</b> .....	<b>8,403</b>	<b>19</b>	<b>8,422</b>
<b>SERC</b>			
Aiken Electric Coop Inc.....	0	1	1
Alabama Electric Coop Inc.....	27	3	30
Alabama Power Co.....	472	-14	458
Albemarle City of.....	0	*	*
Altamaha Electric Member Corp.....	*	*	*
Amicalola Electric Member Corp.....	*	*	*
Berkeley Electric Coop Inc.....	5	*	5
Black River Electric Coop Inc.....	2	0	2
Brunswick Electric Member Corp.....	*	*	*
BARC Electric Coop Inc.....	0	*	*
Canoochee Electric Member Corp.....	0	*	*
Carolina Power & Light Co.....	1,969	0	1,969
Carroll Electric Member Corp.....	*	1	2
Central Georgia El Member Corp.....	3	0	3

See footnotes at end of table.

**Table 10. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management <sup>1</sup>	Total DSM Programs
<b>SERC (Continued)</b>			
Central Virginia Electric Coop.....	0	1	1
Choctawhatche Elec Coop Inc.....	3	*	4
Coastal Electric Member Corp.....	1	0	1
Cobb Electric Membership Corp.....	19	0	19
Colquitt Electric Members Corp.....	0	*	*
Community Electric Coop.....	0	*	*
Coweta-Fayette El Member Corp.....	59	2	60
Crescent Electric Member Corp.....	0	1	1
Douglas City of.....	*	1	1
Duke Power Co.....	132	0	132
East Point City of.....	0	4	4
Fairfield Electric Coop Inc.....	0	1	1
Fayetteville Public Works Comm.....	*	0	*
Fitzgerald Wtr Lgt & Bond Comm.....	0	*	*
Flint Electric Membership Corp.....	1	1	1
Florida Keys El Coop Assn Inc.....	0	*	*
Florida Power & Light Co.....	2,968	18	2,986
Florida Power Corp.....	557	426	983
Fort Pierce Utilities Auth.....	1	0	1
Gainesville Regional Utilities.....	40	25	66
Georgia Power Co.....	211	0	211
Grady County Elec Member Corp.....	*	*	*
Greenville Utilities Comm.....	15	0	15
Gulf Power Co.....	428	0	428
Haywood Electric Member Corp.....	*	*	*
Jackson Electric Member Corp.....	10	1	11
Jacksonville Electric Auth.....	106	0	106
Jefferson Electric Member Corp.....	*	*	*
Jones-Onslow Elec Member Corp.....	*	3	4
Kissimmee Utility Authority.....	3	2	5
Lakeland City of.....	1	*	1
Laurens Electric Coop Inc.....	*	*	*
Laurinburg City of.....	0	*	*
Lawrenceville City of.....	0	*	*
Lee County Electric Coop Inc.....	21	0	21
Leesburg City of.....	0	*	*
Lumberton City of.....	0	*	*
Lynches River Elec Coop Inc.....	0	*	*
Manassas City of.....	0	2	2
Marietta City of.....	0	*	*
Mecklenburg Electric Coop Inc.....	0	*	*
Mid-Carolina Electric Coop Inc.....	0	3	3
Mississippi Power Co.....	1	0	1
Mitchell Electric Member Corp.....	0	*	*
Monroe City of.....	0	1	1
Municipal Electric Authority.....	0	1	1
New Bern City of.....	0	*	*
Northern Neck Elec Coop Inc.....	0	*	*
Northern Virginia Elec Coop.....	*	*	1
Ocala City of.....	5	*	5
Orangeburg City of.....	0	*	*
Orlando Utilities Comm.....	82	0	82
Palmetto Electric Coop Inc.....	1	1	2
Planters Electric Member Corp.....	*	0	*
Rayle Electric Membership Corp.....	*	0	*
Reedy Creek Improvement Dist.....	4	1	5
Rock Hill City of.....	0	*	*
Satilla Rural Elec Member Corp.....	*	*	*
Savannah Electric & Power Co.....	8	0	8
Sawnee Electric Members Corp.....	1	0	1
Shenandoah Valley Elec Coop.....	0	2	2
Singing River Elec Power Assn.....	3	*	3
South Carolina Electric&Gas Co.....	164	5	168
South Carolina Pub Serv Auth.....	31	0	31
South Mississippi El Pwr Assn.....	18	110	128
Sumter Electric Coop Inc.....	18	*	18
Tallahassee City of.....	65	35	100

See footnotes at end of table.



**Table 10. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management <sup>1</sup>	Total DSM Programs
<b>SERC (Continued)</b>			
Tampa Electric Co.....	168	1	169
Tennessee Valley Authority.....	3,321	0	3,321
Thomasville City of.....	*	*	*
Tri-County Elec Member Corp.....	0	*	*
Tri-County Elec Member Corp.....	0	*	*
Vero Beach City of.....	6	0	6
Virginia Electric & Power Co.....	145	23	167
Wake Electric Membership Corp.....	*	3	3
Walton Electric Member Corp.....	0	2	2
Withlacoochee River Elec Coop.....	2	*	2
York Electric Coop Inc.....	*	1	1
<b>SERC Total.....</b>	<b>11,097</b>	<b>672</b>	<b>11,768</b>
<b>SPP</b>			
Central Rural Electric Coop.....	2	0	2
Craighead Electric Coop Corp.....	0	*	*
Duncan City of.....	*	0	*
First Electric Coop Corp.....	4	*	4
Gulf States Utilities Co.....	132	0	132
Independence City of.....	2	0	2
Kansas City City of.....	0	*	*
Kansas Electric Power Coop Inc.....	0	2	2
New Orleans Public Service Inc.....	25	0	25
North Arkansas Elec Coop Inc.....	0	*	*
Northeast Louisiana Power Coop.....	0	7	7
Oklahoma Gas & Electric Co.....	124	0	124
Ozark Electric Coop Inc.....	6	0	6
Petit Jean Electric Coop Corp.....	0	*	*
Red River Valley Rrl Elec Assn.....	2	7	9
South Central Ark El Coop Inc.....	0	3	3
South Plains Electric Coop Inc.....	8	*	8
Southwestern Electric Power Co.....	27	0	27
Southwestern Public Service Co.....	141	0	141
Stillwater Utilities Authority.....	0	*	*
<b>SPP Total.....</b>	<b>472</b>	<b>21</b>	<b>492</b>
<b>WSCC(U.S.)</b>			
Alameda City of.....	7	0	7
Anaheim City of.....	16	9	24
Arizona Electric Pwr Coop Inc.....	2	0	2
Arizona Public Service Co.....	515	0	515
Bonneville Power Admin.....	3,091	1,415	4,505
Boulder City City of.....	1	0	1
Bountiful City City of.....	*	*	*
Columbia River Peoples Ut Dist.....	2	0	2
El Paso Electric Co.....	37	2	39
Ellensburg City of.....	14	0	14
Eugene City of.....	183	0	183
Idaho Power Co.....	138	0	138
Imperial Irrigation District.....	6	*	6
Longmont City of.....	8	11	19
Los Angeles City of.....	228	0	228
Loveland City of.....	*	*	*
Modesto Irrigation District.....	12	0	12
Montana Power Co.....	168	7	175
Navopache Electric Coop Inc.....	*	1	1
Nevada Power Co.....	150	7	157
Overton Power District No 5.....	4	0	4
Pacific Gas & Electric Co.....	1,882	0	1,882
PacifiCorp.....	571	0	571
Palo Alto City of.....	11	0	11
Pasadena City of.....	12	0	12
Portland General Electric Co.....	470	0	470
Provo City Corp.....	2	0	2
Public Service Co of Colorado.....	246	1	247

See footnotes at end of table.

**Table 10. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management <sup>1</sup>	Total DSM Programs
<b>WSCC(U.S.) (Continued)</b>			
Puget Sound Power & Light Co.....	1,680	0	1,680
PUD No 2 of Grant County.....	*	7	7
Redding City of.....	*	*	*
Riverside City of.....	8	2	11
Roseville City of.....	3	0	3
Sacramento Municipal Util Dist.....	426	0	426
Salt River Proj Ag I & P Dist.....	66	0	66
San Diego Gas & Electric Co.....	152	1	154
Santa Clara City of.....	1	*	1
Seattle City of.....	406	0	406
Sierra Pacific Power Co.....	193	0	193
Southern California Edison Co.....	6,770	0	6,770
Springfield City of.....	62	*	63
Sulphur Springs Valley E C Inc.....	1	*	1
Tacoma City of.....	64	0	64
Trico Electric Coop Inc.....	0	*	*
Tucson Electric Power Co.....	65	0	65
Turlock Irrigation District.....	10	0	10
United Power Inc.....	*	-2	-2
Vera Irrigation District # 15.....	0	1	1
Vernon City of.....	0	3	3
Washington Water Power Co.....	479	0	479
Yellowstone Vily Elec Coop Inc.....	0	6	6
<b>WSCC(U.S.) Total.....</b>	<b>18,161</b>	<b>1,473</b>	<b>19,634</b>
<b>Contiguous U.S.....</b>	<b>49,701</b>	<b>2,748</b>	<b>52,449</b>
<b>ASCC</b>			
Alaska Electric Light&Power Co.....	0	*	*
Golden Valley Elec Assn Inc.....	3	0	3
<b>ASCC Total.....</b>	<b>3</b>	<b>*</b>	<b>3</b>
<b>Hawaii</b>			
Hawaii Electric Light Co Inc.....	3	0	3
Hawaiian Electric Co Inc.....	11	0	11
Maui Electric Co Ltd.....	2	15	17
<b>Hawaii Total.....</b>	<b>16</b>	<b>15</b>	<b>31</b>
<b>U.S. Total.....</b>	<b>49,720</b>	<b>2,763</b>	<b>52,483</b>

<sup>1</sup> Load management includes the following DSM program categories: direct load control, interruptible load, other load management, other demand-side management.

\* Value less than 0.5.

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours. •Totals may not equal sum of components because of independent rounding.

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

**Table 11. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Million Kilowatthours)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>ECAR</b>						
American Mun Power-Ohio Inc.....	Publicly Owned	0	0	1	*	1
Appalachian Power Co.....	Investor-Owned	65	*	12	0	77
Cincinnati Gas & Electric Co.....	Investor-Owned	1	38	8	0	47
Cleveland Electric Illum Co.....	Investor-Owned	14	6	13	0	33
Columbus Southern Power Co.....	Investor-Owned	45	0	*	0	46
Consumers Power Co.....	Investor-Owned	57	146	146	0	350
Crawfordsville Elec Lgt&Pwr Co.....	Publicly Owned	*	0	0	*	*
Detroit Edison Co.....	Investor-Owned	85	40	45	0	170
East Kentucky Power Coop Inc.....	Cooperative	2	0	0	0	2
Indiana Michigan Power Co.....	Investor-Owned	13	2	2	0	17
Indianapolis Power & Light Co.....	Investor-Owned	3	10	37	0	50
Kentucky Power Co.....	Investor-Owned	17	0	1	0	17
Kentucky Utilities Co.....	Investor-Owned	39	*	*	0	39
Kingsport Power Co.....	Investor-Owned	6	0	0	0	6
Lansing City of.....	Publicly Owned	0	*	0	0	*
Louisville Gas & Electric Co.....	Investor-Owned	0	0	3	0	3
Monongahela Power Co.....	Investor-Owned	74	69	93	0	236
Ohio Edison Co.....	Investor-Owned	52	23	28	0	103
Ohio Power Co.....	Investor-Owned	33	0	7	0	40
Owen Electric Coop Inc.....	Cooperative	1	*	*	0	1
Potomac Edison Co.....	Investor-Owned	180	114	95	0	390
PSI Energy Inc.....	Investor-Owned	57	120	94	3	275
Southern Indiana Gas & Elec Co.....	Investor-Owned	8	12	18	0	37
Toledo Edison Co.....	Investor-Owned	8	9	10	0	27
West Penn Power Co.....	Investor-Owned	33	85	150	0	268
Wheeling Power Co.....	Investor-Owned	2	0	0	0	2
<b>ECAR Total.....</b>		<b>793</b>	<b>676</b>	<b>764</b>	<b>3</b>	<b>2,237</b>
<b>ERCOT</b>						
Austin City of.....	Publicly Owned	255	263	0	0	518
Brazos Electric Power Coop Inc.....	Cooperative	12	*	0	0	12
Bryan City of.....	Publicly Owned	9	*	0	0	9
Central Power & Light Co.....	Investor-Owned	75	124	0	0	198
College Station City of.....	Publicly Owned	1	*	0	0	1
Greenville Electric Util Sys.....	Publicly Owned	0	0	*	0	*
Houston Lighting & Power Co.....	Investor-Owned	64	105	12	0	181
Johnson County Elec Coop Assn.....	Cooperative	5	0	0	0	5
Lower Colorado River Authority.....	Publicly Owned	114	9	0	0	123
Magic Valley Electric Coop Inc.....	Cooperative	*	0	1	0	2
San Bernard Electric Coop Inc.....	Cooperative	*	0	0	0	*
San Marcos City of.....	Publicly Owned	9	2	0	0	11
Texas Utilities Electric Co.....	Investor-Owned	1,107	1,425	0	0	2,532
Texas-New Mexico Power Co.....	Investor-Owned	41	52	0	0	93
Tri-County Electric Coop Inc.....	Cooperative	2	*	0	0	2
West Texas Utilities Co.....	Investor-Owned	4	5	44	0	53
<b>ERCOT Total.....</b>		<b>1,697</b>	<b>1,985</b>	<b>57</b>	<b>0</b>	<b>3,739</b>
<b>MAAC</b>						
A & N Electric Coop.....	Cooperative	1	0	0	0	1
Atlantic City Electric Co.....	Investor-Owned	43	15	1	6	65
Baltimore Gas & Electric Co.....	Investor-Owned	19	356	0	0	375
Bedford Rural Elec Coop Inc.....	Cooperative	*	0	0	0	*
Conowingo Power Co.....	Investor-Owned	4	0	0	0	4
Delmarva Power & Light Co.....	Investor-Owned	16	58	0	0	74
Easton Utilities Comm.....	Publicly Owned	*	0	0	0	*
Jersey Central Power&Light Co.....	Investor-Owned	56	31	31	0	118
Metropolitan Edison Co.....	Investor-Owned	70	3	9	0	82
Pennsylvania Electric Co.....	Investor-Owned	4	*	36	0	41
Pennsylvania Power & Light Co.....	Investor-Owned	24	1	0	*	25
Potomac Electric Power Co.....	Investor-Owned	92	725	0	0	817
Public Service Electric&Gas Co.....	Investor-Owned	20	101	23	0	144
PECO Energy Co.....	Investor-Owned	67	1	0	0	68
Southern Maryland El Coop Inc.....	Cooperative	8	0	0	0	8
Southwest Central R E C Corp.....	Cooperative	*	0	0	0	*
UGI Utilities Inc.....	Investor-Owned	*	0	0	0	*
<b>MAAC Total.....</b>		<b>424</b>	<b>1,291</b>	<b>100</b>	<b>6</b>	<b>1,820</b>

See footnotes at end of table.

**Table 11. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>MAIN</b>						
Central Illinois Light Co .....	Investor-Owned	*	0	0	0	*
Coles-Moultrie Electric Coop .....	Cooperative	0	0	*	0	*
Columbia City of .....	Publicly Owned	3	2	0	0	5
Commonwealth Edison Co.....	Investor-Owned	1	0	1	0	1
Eastern Illini Electric Coop.....	Cooperative	3	0	*	0	3
Madison Gas & Electric Co.....	Investor-Owned	26	97	0	16	138
Manitowoc Public Utilities.....	Publicly Owned	4	4	4	0	12
Marshfield City of .....	Publicly Owned	*	3	1	*	4
Southeastern IL Elec Coop Inc.....	Cooperative	*	0	0	0	*
Southwestern Electric Coop Inc.....	Cooperative	*	*	*	0	*
Springfield City of.....	Publicly Owned	3	4	0	0	8
Union Electric Co.....	Investor-Owned	0	0	11	0	11
Wisconsin Electric Power Co .....	Investor-Owned	461	750	356	0	1,567
Wisconsin Power & Light Co.....	Investor-Owned	28	231	16	0	275
Wisconsin Public Power Inc Sys.....	Publicly Owned	5	7	10	0	22
Wisconsin Public Service Corp.....	Investor-Owned	110	269	0	26	405
<b>MAIN Total.....</b>		<b>645</b>	<b>1,367</b>	<b>399</b>	<b>42</b>	<b>2,453</b>
<b>MAPP(U.S.)</b>						
Ames City of .....	Publicly Owned	0	*	0	1	1
Anoka City of .....	Publicly Owned	*	*	*	0	*
Austin City of .....	Publicly Owned	*	*	*	0	1
Barron Electric Coop.....	Cooperative	3	0	*	0	3
Beatrice City of .....	Publicly Owned	*	*	0	0	*
Cass County Electric Coop Inc.....	Cooperative	1	*	*	0	1
Cedar Falls City of .....	Publicly Owned	*	1	0	*	1
Central Iowa Power Coop.....	Cooperative	1	0	0	0	1
Central Power Elec Coop Inc .....	Cooperative	0	*	0	0	*
Clark Electric Coop.....	Cooperative	*	0	*	0	*
Coop Power Assn .....	Cooperative	1	23	0	0	24
Cornhusker Public Power Dist.....	Publicly Owned	0	0	*	0	*
Fairmont Public Utilities Comm.....	Publicly Owned	0	*	0	0	*
Grant-Lafayette Electric Coop .....	Cooperative	*	0	*	0	1
Interstate Power Co .....	Investor-Owned	4	29	21	6	60
Iowa Lakes Electric Coop.....	Cooperative	6	0	1	*	6
Iowa-Illinois Gas&Electric Co.....	Investor-Owned	3	8	5	0	15
IES Utilities Inc .....	Investor-Owned	5	45	-5	0	45
Lincoln Electric System .....	Publicly Owned	1	3	0	12	15
Marshall City of.....	Publicly Owned	*	*	*	0	*
Midland Power Coop.....	Cooperative	*	0	0	0	*
Midwest Power Systems Inc.....	Investor-Owned	27	120	5	0	152
Minnesota Power & Light Co.....	Investor-Owned	6	10	49	0	65
Moorhead City of .....	Publicly Owned	*	*	*	0	*
Mountrail-Williams El Coop Inc .....	Cooperative	9	0	0	0	9
Municipal Energy Agency of NE.....	Publicly Owned	1	*	*	0	1
Muscatine City of .....	Publicly Owned	1	3	0	0	4
Nodak Electric Coop Inc.....	Cooperative	1	*	*	*	1
North Platte City of.....	Publicly Owned	0	0	0	*	*
Northern States Power Co of MN .....	Investor-Owned	178	656	188	0	1,022
Northern States Power Co of WI.....	Investor-Owned	94	93	89	3	280
Northwest Iowa Power Coop.....	Cooperative	9	*	0	0	10
Northwestern Wisconsin Elec Co.....	Investor-Owned	*	1	*	0	1
Oakdale Electric Coop.....	Cooperative	*	0	0	0	*
Omaha Public Power District.....	Publicly Owned	2	3	0	0	5
Otter Tail Power Co.....	Investor-Owned	8	10	12	27	57
Owatonna City of .....	Publicly Owned	*	*	1	0	1
People 's Coop Power Assn.....	Cooperative	*	0	*	0	*
Rice Lake Utilities.....	Publicly Owned	*	*	*	0	1
Rochester Public Utilities.....	Publicly Owned	*	*	*	*	*
Shakopee Public Utilities Comm.....	Publicly Owned	0	*	0	0	*
Spencer City of.....	Publicly Owned	1	*	0	2	3
Superior Water Light&Power Co .....	Investor-Owned	1	3	10	0	15
Tri-County Electric Coop.....	Cooperative	*	0	*	0	*
United Power Assn.....	Cooperative	22	2	0	0	24
Vernon Electric Coop.....	Cooperative	*	0	0	0	*
Wild Rice Electric Coop Inc.....	Cooperative	53	2	0	0	55
<b>MAPP(U.S.) Total.....</b>		<b>439</b>	<b>1,013</b>	<b>379</b>	<b>52</b>	<b>1,883</b>

See footnotes at end of table.

**Table 11. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>NPCC(U.S.)</b>						
Bangor Hydro-Electric Co.....	Investor-Owned	29	8	5	0	42
Boston Edison Co.....	Investor-Owned	140	181	45	18	384
Braintree Town of.....	Publicly Owned	*	*	*	0	*
Burlington City of.....	Publicly Owned	18	2	8	0	29
Cambridge Electric Light Co.....	Investor-Owned	*	70	0	0	70
Central Hudson Gas & Elec Corp.....	Investor-Owned	7	91	21	0	119
Central Maine Power Co.....	Investor-Owned	121	122	155	0	399
Central Vermont Pub Serv Corp.....	Investor-Owned	20	23	17	0	60
Chicopee City of.....	Publicly Owned	*	2	2	0	5
Citizens Utilities Co.....	Investor-Owned	3	1	1	1	5
Commonwealth Electric Co.....	Investor-Owned	10	108	0	0	118
Concord Electric Co.....	Investor-Owned	1	1	1	0	3
Connecticut Light & Power Co.....	Investor-Owned	304	786	147	8	1,244
Connecticut Valley Elec Co Inc.....	Investor-Owned	1	1	1	0	3
Consolidated Edison Co-NY Inc.....	Investor-Owned	205	1,419	0	0	1,624
Exeter & Hampton Electric Co.....	Investor-Owned	1	1	2	0	4
Fitchburg Gas & Elec Light Co.....	Investor-Owned	*	3	5	0	8
Granite State Electric Co.....	Investor-Owned	6	17	10	0	32
Green Mountain Power Corp.....	Investor-Owned	7	38	0	0	44
Hingham City of.....	Publicly Owned	4	*	*	0	4
Holyoke City of.....	Publicly Owned	*	*	0	0	*
Jamestown City of.....	Publicly Owned	*	*	*	0	*
Littleton Town of.....	Publicly Owned	*	0	0	0	*
Long Island Lighting Co.....	Investor-Owned	150	549	0	0	698
Maine Public Service Co.....	Investor-Owned	3	3	0	1	7
Massachusetts Electric Co.....	Investor-Owned	81	358	219	0	658
Montaup Electric Co.....	Investor-Owned	53	81	34	0	168
Narragansett Electric Co.....	Investor-Owned	19	118	73	0	209
New England Power Co.....	Investor-Owned	0	0	*	0	*
New Hampshire Elec Coop Inc.....	Cooperative	1	*	0	0	1
New York State Elec & Gas Corp.....	Investor-Owned	163	374	0	0	537
Niagara Mohawk Power Corp.....	Investor-Owned	234	626	102	0	962
North Attleborough Town of.....	Publicly Owned	*	*	*	*	*
Norwood City of.....	Publicly Owned	*	1	2	0	3
Omya Inc.....	Investor-Owned	*	0	0	0	*
Orange & Rockland Utils Inc.....	Investor-Owned	79	115	0	0	194
Power Authority of State of NY.....	Publicly Owned	34	104	0	0	138
Public Service Co of NH.....	Investor-Owned	1	*	*	0	2
Reading Town of.....	Publicly Owned	*	*	0	0	*
Rochester Gas & Electric Corp.....	Investor-Owned	46	63	95	0	204
Shrewsbury Town of.....	Publicly Owned	1	2	0	*	3
Taunton City of.....	Publicly Owned	1	10	0	0	11
United Illuminating Co.....	Investor-Owned	65	99	25	2	192
Western Massachusetts Elec Co.....	Investor-Owned	72	130	28	5	236
<b>NPCC(U.S.) Total.....</b>		<b>1,882</b>	<b>5,505</b>	<b>999</b>	<b>36</b>	<b>8,422</b>
<b>SERC</b>						
Aiken Electric Coop Inc.....	Cooperative	1	0	0	0	1
Alabama Electric Coop Inc.....	Cooperative	30	0	0	0	30
Alabama Power Co.....	Investor-Owned	472	-14	0	0	458
Albemarle City of.....	Publicly Owned	0	0	*	0	*
Altamaha Electric Member Corp.....	Cooperative	*	*	0	*	*
Amicalola Electric Member Corp.....	Cooperative	*	0	0	0	*
Berkeley Electric Coop Inc.....	Cooperative	5	0	0	0	5
Black River Electric Coop Inc.....	Cooperative	2	0	0	0	2
Brunswick Electric Member Corp.....	Cooperative	*	*	0	0	*
BARC Electric Coop Inc.....	Cooperative	*	0	0	0	*
Canochee Electric Member Corp.....	Cooperative	*	0	0	0	*
Carolina Power & Light Co.....	Investor-Owned	716	368	885	0	1,969
Carroll Electric Member Corp.....	Cooperative	1	*	1	*	2
Central Georgia El Member Corp.....	Cooperative	3	0	0	0	3
Central Virginia Electric Coop.....	Cooperative	0	*	0	*	1
Choctawhatchee Elec Coop Inc.....	Cooperative	4	0	0	0	4
Coastal Electric Member Corp.....	Cooperative	1	0	0	0	1
Cobb Electric Membership Corp.....	Cooperative	19	0	0	0	19
Colquitt Electric Members Corp.....	Cooperative	*	*	*	0	*
Community Electric Coop.....	Cooperative	*	0	0	0	*
Coweta-Fayette El Member Corp.....	Cooperative	60	0	0	0	60

See footnotes at end of table.

**Table 11. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>SERC (Continued)</b>						
Crescent Electric Member Corp.....	Cooperative	1	*	*	*	1
Douglas City of .....	Publicly Owned	*	*	*	0	1
Duke Power Co .....	Investor-Owned	75	57	0	0	132
East Point City of .....	Publicly Owned	1	3	0	0	4
Fairfield Electric Coop Inc.....	Cooperative	1	0	0	0	1
Fayetteville Public Works Comm.....	Publicly Owned	*	0	0	0	*
Fitzgerald Wtr Lgt & Bond Comm .....	Publicly Owned	*	0	0	0	*
Flint Electric Membership Corp .....	Cooperative	1	*	*	*	1
Florida Keys El Coop Assn Inc.....	Cooperative	*	*	*	0	*
Florida Power & Light Co .....	Investor-Owned	1,848	1,139	0	0	2,986
Florida Power Corp .....	Investor-Owned	142	137	660	44	983
Fort Pierce Utilities Auth.....	Publicly Owned	1	0	0	0	1
Gainesville Regional Utilities .....	Publicly Owned	44	18	0	4	66
Georgia Power Co .....	Investor-Owned	157	46	8	0	211
Grady County Elec Member Corp.....	Cooperative	*	0	*	0	*
Greenville Utilities Comm .....	Publicly Owned	15	0	0	0	15
Gulf Power Co.....	Investor-Owned	217	203	0	8	428
Haywood Electric Member Corp .....	Cooperative	*	0	0	0	*
Jackson Electric Member Corp.....	Cooperative	11	*	*	0	11
Jacksonville Electric Auth.....	Publicly Owned	50	26	*	30	106
Jefferson Electric Member Corp .....	Cooperative	*	*	*	*	*
Jones-Onslow Elec Member Corp .....	Cooperative	3	1	0	0	4
Kissimmee Utility Authority .....	Publicly Owned	4	*	0	1	5
Lakeland City of .....	Publicly Owned	1	0	0	0	1
Laurens Electric Coop Inc.....	Cooperative	*	*	0	0	*
Laurinburg City of.....	Publicly Owned	*	*	0	0	*
Lawrenceville City of.....	Publicly Owned	*	*	0	*	*
Lee County Electric Coop Inc .....	Cooperative	18	2	0	0	21
Leesburg City of.....	Publicly Owned	0	0	*	0	*
Lumberton City of.....	Publicly Owned	*	0	0	0	*
Lynches River Elec Coop Inc .....	Cooperative	*	0	0	0	*
Manassas City of .....	Publicly Owned	*	1	1	0	2
Marietta City of .....	Publicly Owned	*	*	0	0	*
Mecklenburg Electric Coop Inc .....	Cooperative	*	0	*	0	*
Mid-Carolina Electric Coop Inc.....	Cooperative	3	0	0	0	3
Mississippi Power Co.....	Investor-Owned	1	0	0	0	1
Mitchell Electric Member Corp .....	Cooperative	*	*	0	0	*
Monroe City of .....	Publicly Owned	*	0	1	0	1
Municipal Electric Authority.....	Publicly Owned	1	*	0	0	1
New Bern City of .....	Publicly Owned	*	*	0	0	*
Northern Neck Elec Coop Inc.....	Cooperative	*	*	0	0	*
Northern Virginia Elec Coop.....	Cooperative	*	*	*	0	1
Ocala City of .....	Publicly Owned	5	*	0	0	5
Orangeburg City of.....	Publicly Owned	0	0	*	0	*
Orlando Utilities Comm .....	Publicly Owned	74	8	0	0	82
Palmetto Electric Coop Inc.....	Cooperative	2	*	0	0	2
Planters Electric Member Corp.....	Cooperative	*	0	0	0	*
Rayle Electric Membership Corp.....	Cooperative	*	0	0	0	*
Reedy Creek Improvement Dist.....	Publicly Owned	0	5	0	0	5
Rock Hill City of.....	Publicly Owned	*	0	0	0	*
Satilla Rural Elec Member Corp.....	Cooperative	*	*	0	*	*
Savannah Electric & Power Co .....	Investor-Owned	8	*	0	0	8
Sawnee Electric Members Corp.....	Cooperative	1	0	0	0	1
Shenandoah Valley Elec Coop.....	Cooperative	2	0	0	0	2
Singing River Elec Power Assn.....	Cooperative	3	0	*	0	3
South Carolina Electric&Gas Co.....	Investor-Owned	133	28	8	0	168
South Carolina Pub Serv Auth.....	Publicly Owned	31	*	0	0	31
South Mississippi El Pwr Assn.....	Cooperative	18	0	110	0	128
Sumter Electric Coop Inc .....	Cooperative	14	4	0	0	18
Tallahassee City of .....	Publicly Owned	92	2	0	6	100
Tampa Electric Co.....	Investor-Owned	123	26	4	16	169
Tennessee Valley Authority .....	Federal	3,321	0	0	0	3,321
Thomasville City of.....	Publicly Owned	*	*	0	0	*
Tri-County Elec Member Corp.....	Cooperative	*	0	0	0	*
Tri-County Elec Member Corp.....	Cooperative	*	0	*	0	*
Vero Beach City of .....	Publicly Owned	5	1	0	0	6
Virginia Electric & Power Co.....	Investor-Owned	20	121	18	8	167
Wake Electric Membership Corp.....	Cooperative	*	0	3	0	3

See footnotes at end of table.

**Table 11. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>SERC (Continued)</b>						
Walton Electric Member Corp.....	Cooperative	2	0	0	0	2
Withlacoochee River Elec Coop.....	Cooperative	2	0	0	0	2
York Electric Coop Inc.....	Cooperative	*	*	*	0	1
<b>SERC Total.....</b>		<b>7,768</b>	<b>2,183</b>	<b>1,701</b>	<b>116</b>	<b>11,768</b>
<b>SPP</b>						
Central Rural Electric Coop.....	Cooperative	2	0	0	0	2
Craighead Electric Coop Corp.....	Cooperative	0	*	*	0	*
Duncan City of.....	Publicly Owned	*	*	0	0	*
First Electric Coop Corp.....	Cooperative	4	0	*	0	4
Gulf States Utilities Co.....	Investor-Owned	128	4	0	0	132
Independence City of.....	Publicly Owned	2	0	0	0	2
Kansas City City of.....	Publicly Owned	0	*	0	0	*
Kansas Electric Power Coop Inc.....	Cooperative	*	0	2	0	2
New Orleans Public Service Inc.....	Investor-Owned	25	0	0	0	25
North Arkansas Elec Coop Inc.....	Cooperative	*	0	0	0	*
Northeast Louisiana Power Coop.....	Cooperative	0	7	0	0	7
Oklahoma Gas & Electric Co.....	Investor-Owned	124	0	0	0	124
Ozark Electric Coop Inc.....	Cooperative	6	0	0	0	6
Petit Jean Electric Coop Corp.....	Cooperative	*	*	0	0	*
Red River Valley Rrl Elec Assn.....	Cooperative	2	*	6	0	9
South Central Ark El Coop Inc.....	Cooperative	0	0	3	0	3
South Plains Electric Coop Inc.....	Cooperative	7	0	*	0	8
Southwestern Electric Power Co.....	Investor-Owned	27	0	0	0	27
Southwestern Public Service Co.....	Investor-Owned	134	2	5	0	141
Stillwater Utilities Authority.....	Publicly Owned	0	0	*	0	*
<b>SPP Total.....</b>		<b>461</b>	<b>14</b>	<b>18</b>	<b>0</b>	<b>492</b>
<b>WSCC(U.S.)</b>						
Alameda City of.....	Publicly Owned	*	4	0	3	7
Anaheim City of.....	Publicly Owned	10	10	4	0	24
Arizona Electric Pwr Coop Inc.....	Cooperative	1	1	0	0	2
Arizona Public Service Co.....	Investor-Owned	409	106	0	0	515
Bonneville Power Admin.....	Federal	2,045	977	1,271	212	4,505
Boulder City City of.....	Publicly Owned	1	*	0	*	1
Bountiful City City of.....	Publicly Owned	*	0	*	0	*
Columbia River Peoples Ut Dist.....	Publicly Owned	2	*	0	0	2
El Paso Electric Co.....	Investor-Owned	*	39	0	0	39
Ellensburg City of.....	Publicly Owned	12	2	0	0	14
Eugene City of.....	Publicly Owned	143	25	15	1	183
Idaho Power Co.....	Investor-Owned	77	16	22	23	138
Imperial Irrigation District.....	Publicly Owned	5	1	*	0	6
Longmont City of.....	Publicly Owned	2	16	2	0	19
Los Angeles City of.....	Publicly Owned	70	74	50	32	228
Loveland City of.....	Publicly Owned	*	0	0	*	*
Modesto Irrigation District.....	Publicly Owned	2	10	0	0	12
Montana Power Co.....	Investor-Owned	57	82	14	21	175
Navapache Electric Coop Inc.....	Cooperative	1	*	*	*	1
Nevada Power Co.....	Investor-Owned	23	133	*	0	157
Overton Power District No 5.....	Publicly Owned	3	1	0	0	4
Pacific Gas & Electric Co.....	Investor-Owned	321	957	299	304	1,882
PacifiCorp.....	Investor-Owned	383	86	102	0	571
Palo Alto City of.....	Publicly Owned	1	11	0	0	11
Pasadena City of.....	Publicly Owned	3	9	0	0	12
Portland General Electric Co.....	Investor-Owned	152	229	89	0	470
Provo City Corp.....	Publicly Owned	*	*	0	2	2
Public Service Co of Colorado.....	Investor-Owned	8	226	14	0	247
Puget Sound Power & Light Co.....	Investor-Owned	905	623	123	29	1,680
PUD No 2 of Grant County.....	Publicly Owned	*	0	7	0	7
Redding City of.....	Publicly Owned	*	*	*	0	*
Riverside City of.....	Publicly Owned	11	*	*	0	11
Roseville City of.....	Publicly Owned	*	1	2	0	3
Sacramento Municipal Util Dist.....	Publicly Owned	188	239	0	0	426
Salt River Proj Ag I & P Dist.....	Publicly Owned	0	66	0	0	66
San Diego Gas & Electric Co.....	Investor-Owned	28	125	0	0	154
Santa Clara City of.....	Publicly Owned	*	*	1	0	1
Seattle City of.....	Publicly Owned	175	185	19	26	406
Sierra Pacific Power Co.....	Investor-Owned	14	62	116	0	193

See footnotes at end of table.

**Table 11. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>WSCC(U.S.) (Continued)</b>						
Southern California Edison Co .....	Investor-Owned	1,322	3,282	1,960	205	6,770
Springfield City of.....	Publicly Owned	53	5	5	*	63
Sulphur Springs Valley E C Inc .....	Cooperative	1	*	*	0	1
Tacoma City of.....	Publicly Owned	22	28	13	*	64
Trico Electric Coop Inc.....	Cooperative	0	0	*	0	*
Tucson Electric Power Co.....	Investor-Owned	11	54	0	0	65
Turlock Irrigation District.....	Publicly Owned	9	*	1	0	10
United Power Inc.....	Cooperative	-2	0	0	0	-2
Vera Irrigation District # 15.....	Publicly Owned	1	0	0	0	1
Vernon City of.....	Publicly Owned	0	0	3	0	3
Washington Water Power Co.....	Investor-Owned	436	28	14	0	479
Yellowstone Vllj Elec Coop Inc.....	Cooperative	6	0	0	0	6
<b>WSCC(U.S.) Total.....</b>		<b>6,915</b>	<b>7,715</b>	<b>4,146</b>	<b>859</b>	<b>19,634</b>
<b>Contiguous U.S.....</b>		<b>21,023</b>	<b>21,750</b>	<b>8,561</b>	<b>1,114</b>	<b>52,449</b>
<b>ASCC</b>						
Alaska Electric Light&Power Co .....	Investor-Owned	*	*	0	0	*
Golden Valley Elec Assn Inc.....	Cooperative	2	*	*	0	3
<b>ASCC Total.....</b>		<b>2</b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>3</b>
<b>Hawaii</b>						
Hawaii Electric Light Co Inc.....	Investor-Owned	1	2	0	0	3
Hawaiian Electric Co Inc .....	Investor-Owned	1	10	0	0	11
Maui Electric Co Ltd.....	Investor-Owned	*	11	6	0	17
<b>Hawaii Total.....</b>		<b>2</b>	<b>23</b>	<b>6</b>	<b>0</b>	<b>31</b>
<b>U.S. Total.....</b>		<b>21,028</b>	<b>21,773</b>	<b>8,568</b>	<b>1,114</b>	<b>52,483</b>

\* Value less than 0.5.

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours. •Totals may not equal sum of components because of independent rounding.

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



# Peak Load Reduction

One of the main goals of DSM programs is to reduce a utility's peak load by using energy efficiency and load control programs. Peak load reduction (measured in megawatts (MW)) is categorized as potential or actual. Potential peak load reduction is the amount of load available for curtailment through load control programs such as direct load control, interruptible load control, other load management, or other DSM programs. Actual peak load reduction is the amount of reduction that is achieved from load control programs that are put into force at the same time as peak load and the amount of reduction that results from energy efficiency programs at the time of peak load.

Utilities are required to report potential and actual peak load reductions on Form EIA-861 for the direct load control, interruptible load control, other load management, and other DSM program categories. Utilities are also required to report actual peak load reductions from energy efficiency programs, but are not required to report potential peak load reduction for the energy efficiency category. These programs are focused on reducing energy consumption over many hours during the year and cannot be implemented specifically during the time of peak load. However, to allow for more accurate comparisons and data analyses to be conducted, in this publication it is assumed that potential peak load reductions resulting from energy efficiency programs were equal to actual peak load reductions. Only large utilities are required to report annual effects for actual and potential peak load reductions; small utilities report only incremental reductions.<sup>8</sup>

## ***Annual Effects for Actual Peak Load Reduction***

In 1994, actual peak load reduction was 25,001 MW, an increase of 82.4 percent since 1990. Actual peak load reductions are predicted by utilities to increase to 26,756 MW in 1995 and to 34,838 MW in 1999 (Table 12).

For the 1994 reporting year, investor-owned utilities accounted for 71.7 percent of actual peak load reductions. Federally owned utilities accounted for 9.9 percent, followed by cooperatives with 9.8 percent, and publicly owned utilities with 8.5 percent. Utility forecasts indicated that investor-owned utili-

ties are expected to increase actual peak load reductions by 12.1 percent in 1995 and to increase at an annual rate of 7.1 percent through 1999. In 1999, cooperatives are expected to provide 8.8 percent of actual peak load reductions and publicly owned utilities are expected to provide 8.1 percent (Table 12).<sup>9</sup> Cooperatives have the greatest peak load reductions as a percentage of utility peak load because, as purchasers of wholesale power, which is more expensive during peak periods, they focus on peak load reduction rather than energy savings. For this reason, it is economically efficient for cooperatives to reduce their system peak load as much as possible (Figure 5).

The 100 utilities with the greatest actual peak load reductions in 1994 accounted for 89.5 percent of the total peak load reduction. The 50 utilities with the greatest peak load reductions accounted for 76.9 percent of the total, and the top 25 utilities accounted for 62.4 percent (Figure 6). These 100, 50, and 25 utilities with the greatest actual peak load reductions represented 54.7, 40.1, and 26.6 percent, respectively, of total retail sales of electricity in the United States in 1994.

Energy efficiency programs accounted for the greatest share of actual peak load reductions, 46.6 percent of the 25,001 MW of total actual peak load reductions. Interruptible load, primarily an industrial sector program, contributed 27.0 percent of the total (Figure 7). Direct load control programs accounted for 16.7 percent of actual peak load reduction. Other load management and other DSM programs combined for the remaining 9.7 percent of total peak load reductions (Table 13). Other load management programs increased 16.0 percent from 1993 to 1994. The actual peak load reductions that are predicted for 1995 and 1999 indicate increases in all categories except other load management and other DSM programs, where decreases are predicted for 1995. The greatest increase from 1994 to 1995 is predicted for the interruptible load program category, an increase of 1,335 MW. The greatest percentage of increase from 1994 to 1995, 19.8 percent, is expected in the interruptible program category. From 1995 to 1999, the average annual increase for actual peak load reductions is expected to be approximately 6.8 percent, with the greatest average annual growth rate predicted for energy efficiency programs at 9.4 percent (Tables 13 and 18).

<sup>8</sup> Incremental peak load reductions and energy savings are those caused by new programs and new participants in existing programs for the current reporting year.

<sup>9</sup> Actual Peak Load Reduction is a function of external factors such as weather conditions. Estimated predictions of actual peak load reductions depend on certain conditions remaining static from year to year. In reality, utilities cannot predict weather conditions that may affect data for the forecast period.

In 1994, the residential sector accounted for 38.6 percent of actual peak load reductions; the commercial sector, 27.7 percent; the industrial sector, 31.9 percent; and the "other" sector, 1.8 percent. The residential sector's share was greatest primarily because of the volume of participants in energy efficiency and direct load control programs. The greatest percentage of increase in actual peak load reductions from 1993 to 1994 was in the industrial sector with 27.2 percent. The residential sector increased actual peak load reductions 8.9 percent and the "other" sector increased 13.0 percent, while the commercial sector decreased by 8.1 percent (Tables 14 and 20).

The NERC region with the greatest actual peak load reductions in 1994 was SERC with 34.2 percent of total U.S. peak load reduction, partly because several large utilities that had the largest load management programs in the United States are included. The WSCC region had the second greatest peak load reductions, contributing 18.3 percent of the total peak load reductions for 1994. The greatest increase in peak load reductions in MW, 424 MW, occurred in the ERCOT region, and the greatest percentage of increase, 39.5 percent, occurred in the MAIN region. For 1995, the MAAC region is predicted to increase by 49.3 percent. From 1995 to 1999, the MAIN region is predicted to increase at an annual rate of 13.3 percent (Table 18).

### **Potential Peak Load Reductions**

In 1994, potential peak load reductions increased 8.6 percent to 42,917 MW. For 1995, potential reductions are predicted to decrease 2.6 percent to 41,784 MW. For 1999, potential peak load reductions are predicted to increase to 51,487 MW.

In 1994, investor-owned utilities accounted for 71.8 percent of the total potential peak load reduction; publicly owned utilities accounted for 6.3 percent; cooperatives, 11.1 percent; and Federally owned, 10.7 percent. The greatest percentage of increase, 14.2 percent, was reported by publicly owned electric utilities. For 1995, a slight decrease is forecasted for investor-owned utilities. For 1999, publicly owned utilities are predicted to have the greatest annual rate of increase, 10.0 percent. Investor-owned utilities are predicted to continue to account for the greatest share of potential peak load reductions in 1999 at 71.5 percent.

Interruptible load programs accounted for 45.2 percent of potential peak load reductions in 1994; energy efficiency accounted for 27.2 percent; direct load control for 20.7 percent; and other load manage-

ment and other DSM programs, combined, accounted for 6.9 percent. The greatest percentage of increase occurred for other load management programs. For 1995, energy efficiency programs are forecasted to increase slightly, and all other programs are forecasted to decrease. For 1999, the greatest average annual increase, 9.4 percent, is predicted for energy efficiency programs. In 1999, the greatest share of potential peak load reduction is expected for interruptible load programs (Table 13).

The industrial sector accounted for 42.6 percent in 1994, the greatest share of potential peak load reductions, primarily as a result of interruptible load programs. The residential and commercial sectors contributed 32.3 percent and 23.1 percent, respectively, in 1994. The other sector accounted for 2.1 percent.

In 1994, the SERC region accounted for 35.1 percent of the total potential peak load reduction, primarily because the Tennessee Valley Authority, Carolina Power and Light, and Duke Power are included. The MAAC region accounted for the largest increase of MW in potential peak load reduction from 1993 to 1994. The greatest percentage of increase was achieved by the MAIN region. The MAPP region is predicted to have the greatest increase from 1994 to 1995. The SERC region is forecasted to continue to contribute the greatest share of potential peak reductions in 1995 and 1999.

### **Incremental Effects for Actual Peak Load Reduction**

In 1994, large utilities reported incremental peak load reductions of 3,169 MW. None of the ownership classes reported an increase over 1993 levels. Investor-owned electric utilities continued to account for the greatest share of incremental reductions, 81.0 percent. Among the small utilities, no ownership class reported an increase over 1993 incremental effects (Table 15).

Likewise, none of the program categories were reported to increase incremental peak load reductions for large utilities in 1994. Energy efficiency programs accounted for the largest percentage of incremental peak load reductions. The largest decrease occurred in the interruptible load category.

For large utilities, the commercial sector accounted for the greatest percent of peak load reductions. For small utilities, the residential sector accounted for the greatest amount, 27 MW, of peak load reductions (Table 17).

**Table 12. U.S. Electric Utility Actual and Potential Peak Load Reductions by Class of Ownership, 1990 Through 1994, 1995, and 1999**  
(Megawatts)

Class of Ownership	Historical Actual Reductions					Projected Actual Reductions	
	1990	1991	1992	1993	1994	1995	1999
Investor-Owned .....	9,435	10,576	12,330	16,362	17,932	20,108	26,499
Publicly Owned .....	1,197	1,634	1,794	1,898	2,123	1,855	2,831
Cooperative .....	1,822	2,821	2,374	2,327	2,459	2,393	3,079
Federal .....	1,250	588	707	2,481	2,487	2,400	2,430
<b>U.S. Total <sup>1</sup> .....</b>	<b>13,704</b>	<b>15,619</b>	<b>17,204</b>	<b>23,069</b>	<b>25,001</b>	<b>26,756</b>	<b>34,838</b>
	Historical Potential Reductions					Projected Potential Reductions	
	1990	1991	1992	1993	1994	1995	1999
Investor-Owned .....	NA	NA	23,774	28,059	30,823	29,320	36,811
Publicly Owned .....	NA	NA	2,305	2,376	2,713	2,811	4,125
Cooperative .....	NA	NA	3,669	4,662	4,783	5,017	6,073
Federal .....	NA	NA	2,694	4,411	4,599	4,636	4,479
<b>U.S. Total <sup>2</sup> .....</b>	<b>NA</b>	<b>NA</b>	<b>32,442</b>	<b>39,508</b>	<b>42,917</b>	<b>41,784</b>	<b>51,487</b>

<sup>1</sup> Represents the sum of the actual peak load reductions attributable to direct load control, interruptible load, energy efficiency, other load management, and other demand-side management.

<sup>2</sup> Represents the sum of the potential peak load reductions attributable to direct load control, interruptible load, other load management, other demand-side management, including the actual peak load reduction achieved by energy efficiency programs.

NA=Data not available.

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours. •Totals may not equal sum of components because of independent rounding.

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

**Table 13. U.S. Electric Utility Actual and Potential Peak Load Reductions by DSM Program Category, 1993, 1994, 1995, and 1999**  
(Megawatts)

Program Category	Historical Actual Reductions	
	1993	1994
Energy Efficiency.....	10,368	11,662
Direct Load Control.....	3,955	4,179
Interruptible Load.....	6,628	6,743
Other Load Management.....	1,803	2,092
Other Demand-Side Management.....	315	326
<b>U.S. Total.....</b>	<b>23,069</b>	<b>25,001</b>

  

Program Category	Projected Actual Reductions	
	1995	1999
Energy Efficiency.....	11,731	16,778
Direct Load Control.....	4,846	6,203
Interruptible Load.....	8,078	9,213
Other Load Management.....	1,777	2,254
Other Demand-Side Management.....	324	390
<b>U.S. Total.....</b>	<b>26,756</b>	<b>34,838</b>

  

Program Category	Historical Potential Reductions	
	1993	1994
Energy Efficiency.....	10,368	11,662
Direct Load Control.....	8,266	8,890
Interruptible Load.....	18,235	19,384
Other Load Management.....	2,182	2,468
Other Demand-Side Management.....	457	513
<b>U.S. Total.....</b>	<b>39,508</b>	<b>42,917</b>

  

Program Category	Projected Potential Reductions	
	1995	1999
Energy Efficiency.....	11,731	16,778
Direct Load Control.....	8,637	10,923
Interruptible Load.....	18,645	20,173
Other Load Management.....	2,260	3,014
Other Demand-Side Management.....	511	599
<b>U.S. Total.....</b>	<b>41,784</b>	<b>51,487</b>

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours. •Totals may not equal sum of components because of independent rounding.

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

**Figure 7. U.S. Electric Utility Actual and Potential Peak Load Reductions by DSM Program Category, 1994**

**Table 14. U.S. Electric Utility Actual and Potential Peak Load Reductions by Sector, 1993 and 1994**  
(Megawatts)

Sectors	1993		1994	
	Actual	Potential	Actual	Potential
Residential .....	8,851	12,868	9,638	13,851
Commercial .....	7,541	11,821	6,927	9,915
Industrial.....	6,270	13,957	7,977	18,271
Other.....	407	862	460	881
<b>U.S. Total.....</b>	<b>23,069</b>	<b>39,508</b>	<b>25,001</b>	<b>42,917</b>

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours. •Totals may not equal sum of components because of independent rounding.

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

**Table 15. U.S. Electric Utility Incremental Actual Peak Load Reductions by Class of Ownership, 1993 and 1994**  
(Megawatts)

Class of Ownership	Large Utilities <sup>1</sup>		Small Utilities <sup>2</sup>		Total	
	1993	1994	1993	1994	1993	1994
Investor-Owned.....	3,977	2,568	*	*	3,978	2,568
Publicly Owned.....	343	311	95	48	438	359
Cooperative.....	313	283	90	17	403	300
Federal.....	14	7	0	0	14	7
<b>U.S. Total.....</b>	<b>4,648</b>	<b>3,169</b>	<b>185</b>	<b>65</b>	<b>4,833</b>	<b>3,234</b>

<sup>1</sup> Refers to electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.

<sup>2</sup> Refers to electric utilities with sales to ultimate consumers and sales for resale less than 120,000 megawatthours.

\* Value less than 0.5.

Notes: •Data are final. •Totals may not equal sum of components because of independent rounding.

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

**Table 16. U.S. Electric Utility Incremental Actual Peak Load Reductions by DSM Program Category, 1993 and 1994**  
(Megawatts)

Program Category	Large Utilities <sup>1</sup>		Small Utilities <sup>2</sup>		Total	
	1993	1994	1993	1994	1993	1994
Energy Efficiency.....	1,839	1,751	9	9	1,848	1,760
Direct Load Control.....	594	457	105	27	699	483
Interruptible Load.....	1,864	704	33	21	1,896	725
Other Load Management.....	297	224	38	6	334	230
Other Demand-Side Management.....	55	33	1	2	56	35
<b>U.S. Total.....</b>	<b>4,648</b>	<b>3,169</b>	<b>185</b>	<b>65</b>	<b>4,833</b>	<b>3,234</b>

<sup>1</sup> Refers to electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.

<sup>2</sup> Refers to electric utilities with sales to ultimate consumers and sales for resale less than 120,000 megawatthours.

Notes: •Data are final. •Totals may not equal sum of components because of independent rounding.

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

**Table 17. U.S. Electric Utility Incremental Actual Peak Load Reductions by Sector, 1993 and 1994**  
(Megawatts)

Sector	Large Utilities <sup>1</sup>		Small Utilities <sup>2</sup>		Total	
	1993	1994	1993	1994	1993	1994
Residential.....	1,147	1,083	76	27	1,223	1,110
Commercial.....	1,427	1,244	35	7	1,462	1,251
Industrial.....	2,014	785	47	24	2,060	809
Other.....	61	57	28	6	88	64
<b>U.S. Total.....</b>	<b>4,648</b>	<b>3,169</b>	<b>185</b>	<b>65</b>	<b>4,833</b>	<b>3,234</b>

<sup>1</sup> Refers to electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.

<sup>2</sup> Refers to electric utilities with sales to ultimate consumers and sales for resale less than 120,000 megawatthours.

Notes: •Data are final. •Totals may not equal sum of components because of independent rounding.

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

**Table 18. U.S. Electric Utility Actual and Potential Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Utility, 1993, 1994, 1995, and 1999**  
(Megawatts)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1993		1994		1995		1999	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
<b>ECAR</b>								
American Mun Power-Ohio Inc.....	6	9	7	10	8	13	11	18
Appalachian Power Co.....	146	202	110	212	129	211	206	288
Buckeye Power Inc.....	119	119	124	124	129	129	143	143
Cincinnati Gas & Electric Co.....	22	26	143	152	33	207	123	367
Cleveland Electric Illum Co.....	6	96	11	101	16	106	16	106
Columbus Southern Power Co.....	27	37	30	38	27	38	42	53
Consumers Power Co.....	135	135	68	68	98	114	54	54
Crawfordsville Elec Lgt&Pwr Co.....	0	0	0	0	1	1	9	10
Dayton Power & Light Co.....	16	16	—	—	—	—	—	—
Detroit Edison Co.....	25	42	37	53	211	211	270	270
East Kentucky Power Coop Inc.....	11	11	17	17	23	23	47	47
Hamilton City of.....	0	*	0	1	0	2	0	5
Hendricks County Rural E M C.....	4	4	—	—	—	—	—	—
Indiana Michigan Power Co.....	37	87	61	85	59	85	201	227
Indiana Municipal Power Agency.....	—	—	0	0	1	1	34	34
Indianapolis Power & Light Co.....	14	26	18	40	35	63	63	102
Kentucky Power Co.....	35	35	27	34	0	0	0	0
Kentucky Utilities Co.....	20	20	11	52	59	62	195	198
Kingsport Power Co.....	1	1	2	2	2	2	10	10
Lansing City of.....	*	6	*	5	*	5	1	9
Louisville Gas & Electric Co.....	64	110	70	122	85	132	149	198
Midwest Electric Inc.....	0	8	10	10	10	10	12	12
Monongahela Power Co.....	76	103	85	85	90	90	125	125
Northern Indiana Pub Serv Co.....	0	121	0	121	0	122	0	136
Ohio Edison Co.....	252	396	16	405	0	33	0	105
Ohio Power Co.....	120	202	128	210	128	210	128	210
Owen Electric Coop Inc.....	1	1	1	1	1	1	2	2
Pennsylvania Power Co.....	40	67	40	66	1	1	5	5
Potomac Edison Co.....	158	165	180	180	193	193	238	238
PSI Energy Inc.....	76	76	107	107	159	159	289	289
South Central Power Co.....	25	25	27	27	0	27	0	30
Southern Indiana Gas & Elec Co.....	13	45	27	58	75	75	118	118
Toledo Edison Co.....	5	5	8	73	11	76	11	76
Utilities Dist-Western IN REMC.....	11	19	—	—	—	—	—	—
Virginia Tech Electric Service.....	2	2	—	—	—	—	—	—
Wabash Valley Power Assn Inc.....	40	50	40	50	40	50	48	68
Wadsworth City of.....	8	8	8	8	0	10	0	11
West Penn Power Co.....	145	154	163	163	166	166	184	184
Wheeling Power Co.....	3	3	1	1	1	1	1	1
Wolverine Pwr Supply Coop Inc.....	8	10	8	13	10	14	15	18
<b>ECAR Total.....</b>	<b>1,671</b>	<b>2,440</b>	<b>1,583</b>	<b>2,691</b>	<b>1,801</b>	<b>2,642</b>	<b>2,751</b>	<b>3,768</b>
<b>ERCOT</b>								
Austin City of.....	212	259	236	283	271	318	421	448
Brazos Electric Power Coop Inc.....	1	1	3	3	3	3	13	13
Bryan City of.....	9	9	12	12	13	13	19	19
Central Power & Light Co.....	71	336	76	380	67	378	137	457
College Station City of.....	—	—	1	2	1	2	1	2
Denton City of.....	3	3	2	2	1	1	2	2
Garland City of.....	14	32	14	32	14	31	15	36
Georgetown City of.....	*	*	—	—	—	—	—	—
Greenville Electric Util Sys.....	3	5	4	6	4	6	7	11
Guadalupe Valley Elec Coop Inc.....	61	68	59	63	59	64	60	66
Houston Lighting & Power Co.....	48	1,176	73	939	18	685	35	742
Johnson County Elec Coop Assn.....	2	2	2	2	2	2	3	3
Lower Colorado River Authority.....	92	92	76	94	16	29	34	34
Magic Valley Electric Coop Inc.....	*	*	*	*	*	*	*	*
Medina Electric Coop Inc.....	6	28	7	35	8	34	6	22
San Bernard Electric Coop Inc.....	14	27	6	22	6	22	7	24
San Marcos City of.....	3	12	3	12	3	3	3	3
Texas Utilities Electric Co.....	814	1,314	1,233	1,889	17	32	135	150
Texas-New Mexico Power Co.....	19	26	28	28	38	38	42	42
Tri-County Electric Coop Inc.....	2	2	3	3	3	3	4	4
West Texas Utilities Co.....	39	53	0	57	0	58	0	63
<b>ERCOT Total.....</b>	<b>1,414</b>	<b>3,446</b>	<b>1,838</b>	<b>3,863</b>	<b>544</b>	<b>1,723</b>	<b>943</b>	<b>2,138</b>

See footnotes at end of table.

**Table 18. U.S. Electric Utility Actual and Potential Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Utility, 1993, 1994, 1995, and 1999**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1993		1994		1995		1999	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
<b>MAAC</b>								
A & N Electric Coop .....	1	1	1	1	1	2	1	2
Adams Electric Coop Inc .....	8	10	14	16	14	17	16	20
Allegheny Electric Coop Inc .....	—	—	15	23	0	27	0	28
Atlantic City Electric Co .....	94	94	64	94	105	105	137	137
Baltimore Gas & Electric Co .....	59	523	104	865	106	615	188	781
Bedford Rural Elec Coop Inc .....	2	2	2	2	2	2	2	2
Central Electric Coop Inc .....	4	4	4	4	3	5	4	6
Choptank Electric Coop Inc .....	5	10	5	11	6	12	7	14
Claverack Rural Elec Coop Inc .....	5	5	5	5	5	5	5	5
Conowingo Power Co .....	3	3	3	3	0	0	0	0
Delaware Electric Coop Inc .....	6	13	7	17	7	19	10	26
Delmarva Power & Light Co .....	162	246	248	256	16	122	28	150
Easton Utilities Comm .....	*	*	*	*	1	1	8	8
Jersey Central Power&Light Co .....	144	183	345	347	376	379	561	568
Metropolitan Edison Co .....	276	276	281	281	290	290	290	290
Northwestern Rural E C A Inc .....	5	6	6	6	7	7	8	8
Pennsylvania Electric Co .....	51	51	35	35	7	7	31	37
Pennsylvania Power & Light Co .....	167	167	9	299	298	298	306	306
Potomac Electric Power Co .....	177	375	272	509	594	594	904	904
Public Service Electric&Gas Co .....	244	368	283	315	425	425	948	948
PECO Energy Co .....	45	370	46	371	371	371	372	372
Somerset Rural Elec Coop Inc .....	1	2	2	3	2	3	2	3
Southern Maryland El Coop Inc .....	32	185	48	208	55	240	85	341
Southwest Central R E C Corp .....	0	*	*	*	1	1	2	3
Tri-County Rural Elec Coop Inc .....	—	—	1	1	0	*	0	2
Valley Rural Electric Coop Inc .....	3	4	2	5	*	2	*	3
<b>MAAC Total .....</b>	<b>1,493</b>	<b>2,899</b>	<b>1,803</b>	<b>3,679</b>	<b>2,692</b>	<b>3,548</b>	<b>3,918</b>	<b>4,967</b>
<b>MAIN</b>								
Boone Electric Coop .....	2	7	4	10	4	10	4	10
Central Illinois Light Co .....	62	62	70	70	0	82	6	124
Coles-Moultrie Electric Coop .....	8	8	7	7	9	9	10	10
Columbia City of .....	7	17	9	24	16	42	21	56
Commonwealth Edison Co .....	23	173	24	174	218	218	599	599
Corn Belt Electric Coop Inc .....	6	15	6	16	7	14	9	15
Cuivre River Electric Coop Inc .....	6	9	9	10	9	12	13	14
Eastern Illini Electric Coop .....	10	12	10	15	10	15	14	17
Illinois Power Co .....	5	166	0	170	0	170	0	179
Madison Gas & Electric Co .....	30	42	42	75	56	82	80	108
Manitowoc Public Utilities .....	2	2	2	2	1	1	1	1
Marshfield City of .....	1	1	1	1	1	2	4	7
Menard Electric Coop .....	0	*	0	*	*	*	*	*
Shelby Electric Coop Inc .....	8	8	8	8	11	11	14	14
Southeastern IL Elec Coop Inc .....	0	*	0	*	0	*	0	*
Southwestern Electric Coop Inc .....	25	50	13	21	11	22	13	26
Springfield City of .....	5	9	6	10	6	10	10	14
Tri-County Electric Coop Inc .....	12	12	12	12	12	12	16	17
Union Electric Co .....	145	182	140	185	140	185	253	298
Wayne-White Counties Elec Coop .....	0	12	0	12	10	13	10	13
Wisconsin Electric Power Co .....	336	435	619	744	318	612	406	778
Wisconsin Power & Light Co .....	54	196	63	244	79	265	121	323
Wisconsin Public Power Inc Sys .....	7	7	21	21	29	31	55	57
Wisconsin Public Service Corp .....	91	121	111	145	276	276	357	357
<b>MAIN Total .....</b>	<b>844</b>	<b>1,545</b>	<b>1,177</b>	<b>1,977</b>	<b>1,223</b>	<b>2,091</b>	<b>2,014</b>	<b>3,036</b>
<b>MAPP(U.S.)</b>								
Ames City of .....	*	6	1	1	2	2	4	4
Anoka City of .....	*	*	*	*	*	*	*	1
Austin City of .....	5	5	12	12	5	6	6	7
Barron Electric Coop .....	6	6	6	6	6	6	6	6
Beatrice City of .....	4	15	1	5	6	22	7	27
Cass County Electric Coop Inc .....	57	61	55	65	56	58	62	67
Cedar Falls City of .....	5	5	*	*	*	*	*	*
Central Iowa Power Coop .....	5	27	*	3	*	3	1	4

See footnotes at end of table.



**Table 18. U.S. Electric Utility Actual and Potential Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Utility, 1993, 1994, 1995, and 1999**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1993		1994		1995		1999	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
<b>MAPP(U.S.) (Continued)</b>								
Central Power Elec Coop Inc.....	15	22	15	22	16	23	16	23
Clark Electric Coop.....	4	4	4	4	4	4	5	5
Coop Power Assn.....	2	110	5	138	8	153	19	257
Cornhusker Public Power Dist.....	6	23	1	1	1	1	1	2
Dawson County Public Pwr Dist.....	*	*	*	*	0	*	0	*
East Grand Forks City of.....	—	—	2	3	2	3	2	3
East River Elec Power Coop Inc.....	43	104	49	104	36	104	40	110
Fairmont Public Utilities Comm.....	*	*	2	2	2	2	4	4
Freeborn-Mower Electric Coop.....	3	3	—	—	—	—	—	—
Grant-Lafayette Electric Coop.....	5	5	6	6	6	6	8	9
Interstate Power Co.....	38	51	56	78	71	71	105	105
Iowa Lakes Electric Coop.....	12	13	8	29	8	30	9	36
Iowa-Illinois Gas&Electric Co.....	0	0	5	5	8	8	24	24
IES Utilities Inc.....	178	339	110	366	441	441	559	559
L & O Power Coop.....	2	2	2	2	2	2	2	2
Lexington City of.....	—	—	1	1	1	1	1	1
Lincoln Electric System.....	1	2	2	2	3	3	6	6
Loup River Public Power Dist.....	—	—	3	14	6	9	10	18
Marshall City of.....	3	5	2	5	3	6	3	7
Midland Power Coop.....	*	*	*	*	*	*	*	1
Midwest Power Systems Inc.....	179	179	224	224	250	250	311	311
Minnesota Power & Light Co.....	16	102	124	210	232	323	277	386
Minnkota Power Coop Inc.....	285	285	291	291	295	295	315	315
Moorhead City of.....	12	12	12	12	12	12	3	19
Mountrail-Williams El Coop Inc.....	5	10	3	5	3	6	3	6
Municipal Energy Agency of NE.....	20	23	20	23	15	18	19	23
MDU Resources Group Inc.....	7	11	9	13	12	13	12	13
Nebraska Public Power District.....	7	9	7	9	7	9	7	9
Nodak Electric Coop Inc.....	61	61	63	63	63	63	68	68
Norris Public Power District.....	1	8	5	8	6	13	10	16
North Platte City of.....	7	8	8	8	8	9	8	9
Northern States Power Co of MN.....	691	691	774	774	915	915	1,326	1,326
Northern States Power Co of WI.....	126	126	125	149	140	170	187	235
Northwest Iowa Power Coop.....	7	27	16	38	18	41	26	52
Northwestern Public Service Co.....	*	*	*	*	*	*	1	1
Northwestern Wisconsin Elec Co.....	—	—	*	1	1	1	1	1
Oakdale Electric Coop.....	4	4	4	4	4	4	4	4
Oliver-Mercer Elec Coop Inc.....	2	2	4	6	4	6	4	6
Omaha Public Power District.....	2	2	3	3	33	33	125	125
Otter Tail Power Co.....	90	110	85	102	15	100	16	107
Owatonna City of.....	9	20	10	20	6	16	6	17
Pella City of.....	*	*	—	—	—	—	—	—
People 's Coop Power Assn.....	4	4	4	4	5	5	6	6
Pierre City of.....	5	8	5	8	6	9	8	11
Polk-Burnett Electric Coop.....	8	16	8	8	7	17	9	20
Rice Lake Utilities.....	—	—	*	*	*	*	1	1
Rochester Public Utilities.....	8	9	4	10	9	10	13	14
Roseau Electric Coop Inc.....	19	19	19	19	20	20	25	25
Runestone Electric Assn.....	6	22	—	—	—	—	—	—
Shakopee Public Utilities Comm.....	1	1	1	1	1	1	2	3
Spencer City of.....	—	—	*	*	*	*	1	1
Superior Water Light&Power Co.....	*	1	2	2	1	1	*	*
Tri-County Electric Coop.....	9	9	9	9	9	9	11	11
United Power Assn.....	106	158	105	166	130	174	175	229
Verendrye Electric Coop Inc.....	4	4	0	0	0	0	0	0
Vernon Electric Coop.....	7	7	6	6	4	4	5	5
Wild Rice Electric Coop Inc.....	19	52	18	18	18	18	20	20
<b>MAPP(U.S.) Total.....</b>	<b>2,121</b>	<b>2,809</b>	<b>2,319</b>	<b>3,089</b>	<b>2,938</b>	<b>3,526</b>	<b>3,904</b>	<b>4,677</b>
<b>NPCC(U.S.)</b>								
Arcade Village of.....	—	—	*	1	*	1	*	1
Bangor Hydro-Electric Co.....	7	7	9	9	10	11	12	14
Blackstone Valley Electric Co.....	12	12	1	1	0	1	0	*
Boston Edison Co.....	101	101	114	119	19	32	19	32

See footnotes at end of table.

**Table 18. U.S. Electric Utility Actual and Potential Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Utility, 1993, 1994, 1995, and 1999**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1993		1994		1995		1999	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
<b>NPCC(U.S.) (Continued)</b>								
Braintree Town of.....	3	7	4	8	5	7	5	6
Burlington City of.....	3	3	8	8	10	10	10	10
Cambridge Electric Light Co.....	6	15	18	28	3	3	3	3
Central Hudson Gas & Elec Corp.....	23	35	25	34	32	32	54	54
Central Maine Power Co.....	84	84	92	92	98	98	98	98
Central Vermont Pub Serv Corp.....	122	122	15	15	15	15	15	15
Chicopee City of.....	1	1	2	2	2	2	8	10
Citizens Utilities Co.....	7	7	1	7	3	8	31	36
Commonwealth Electric Co.....	19	19	22	23	9	9	9	9
Concord Electric Co.....	1	1	1	1	2	2	5	5
Connecticut Light & Power Co.....	267	267	262	262	265	265	318	318
Connecticut Valley Elec Co Inc.....	5	5	6	6	0	0	0	0
Consolidated Edison Co-NY Inc.....	184	213	517	517	595	604	824	824
Eastern Edison Co.....	25	25	6	6	0	6	0	5
Exeter & Hampton Electric Co.....	1	1	1	1	2	2	5	5
Fitchburg Gas & Elec Light Co.....	2	2	2	2	3	3	7	7
Granite State Electric Co.....	8	8	9	9	10	10	15	15
Green Mountain Power Corp.....	15	21	18	25	23	29	38	44
Hingham City of.....	4	7	3	7	4	7	4	8
Holyoke City of.....	1	1	1	1	1	1	1	1
Jamestown City of.....	*	*	*	*	2	2	2	2
Littleton Town of.....	0	1	0	1	0	2	0	2
Long Island Lighting Co.....	194	194	164	164	180	180	359	359
Maine Public Service Co.....	1	6	1	2	1	1	1	2
Massachusetts Electric Co.....	147	147	159	159	176	176	288	288
Massena Town of.....	1	4	1	4	1	4	2	6
Montaup Electric Co.....	32	32	34	34	37	37	59	59
Narragansett Electric Co.....	56	56	61	61	60	60	98	98
New England Power Co.....	0	71	52	64	13	85	21	105
New Hampshire Elec Coop Inc.....	31	39	7	7	13	13	31	31
New York State Elec & Gas Corp.....	157	158	120	120	127	127	127	127
Newport Electric Corp.....	2	2	—	—	—	—	—	—
Niagara Mohawk Power Corp.....	135	135	168	168	174	174	283	283
North Attleborough Town of.....	—	—	2	2	2	2	4	4
Norwood City of.....	1	7	1	1	*	*	*	1
Omya Inc.....	*	*	*	*	*	*	*	*
Orange & Rockland Utils Inc.....	98	98	124	124	130	130	152	152
Power Authority of State of NY.....	33	33	42	42	63	63	167	167
Public Service Co of NH.....	*	*	1	1	1	1	10	10
Reading Town of.....	6	8	6	8	*	9	*	9
Rochester Gas & Electric Corp.....	49	49	55	55	57	57	84	84
Shrewsbury Town of.....	3	3	3	3	3	3	5	5
Taunton City of.....	4	4	1	1	1	1	1	1
United Illuminating Co.....	57	57	68	68	57	57	79	79
Wellesley Town of.....	0	0	0	0	0	0	2	2
Western Massachusetts Elec Co.....	59	59	58	58	61	61	86	86
<b>NPCC(U.S.) Total.....</b>	<b>1,968</b>	<b>2,130</b>	<b>2,261</b>	<b>2,325</b>	<b>2,269</b>	<b>2,400</b>	<b>3,343</b>	<b>3,482</b>
<b>SERC</b>								
Aiken Electric Coop Inc.....	4	4	4	4	5	5	7	7
Alabama Electric Coop Inc.....	6	103	8	105	10	107	10	107
Alabama Municipal Elec Auth.....	—	—	3	5	7	8	7	8
Alabama Power Co.....	84	802	83	703	96	859	132	1,031
Albemarle City of.....	*	*	*	*	*	*	*	*
Altamaha Electric Member Corp.....	3	8	3	8	3	9	3	10
Amicalola Electric Member Corp.....	1	3	1	4	2	4	3	7
Athens City of.....	2	10	—	—	—	—	—	—
Berkeley Electric Coop Inc.....	21	54	24	61	24	63	32	89
Black River Electric Coop Inc.....	4	4	5	5	5	5	6	6
Blue Ridge Elec Member Corp.....	0	12	—	—	—	—	—	—
Bristol City of.....	27	27	—	—	—	—	—	—
Brunswick Electric Member Corp.....	16	19	19	24	20	25	22	28
BARC Electric Coop Inc.....	2	2	2	2	2	2	2	2
Canoochee Electric Member Corp.....	2	2	2	4	2	4	2	4

See footnotes at end of table.

**Table 18. U.S. Electric Utility Actual and Potential Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Utility, 1993, 1994, 1995, and 1999**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1993		1994		1995		1999	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
<b>SERC (Continued)</b>								
Carolina Power & Light Co.....	1,362	1,375	979	979	674	1,078	794	1,312
Carroll Electric Member Corp.....	13	15	16	23	17	23	19	26
Carteret-Craven El Member Corp.....	7	38	—	—	—	—	—	—
Central Electric Member Corp.....	3	3	—	—	—	—	—	—
Central Electric Pwr Coop Inc.....	53	53	—	—	—	—	—	—
Central Florida Elec Coop Inc.....	2	2	2	3	2	3	2	3
Central Georgia El Member Corp.....	16	17	18	19	16	17	19	20
Central Virginia Electric Coop.....	—	—	50	66	74	93	124	147
Choctawhatche Elec Coop Inc.....	—	—	1	1	1	1	1	1
Clay Electric Coop Inc.....	54	116	60	124	59	107	72	126
Coast Electric Power Assn.....	26	32	—	—	—	—	—	—
Coastal Electric Member Corp.....	3	3	4	4	4	4	5	5
Cobb Electric Membership Corp.....	51	51	45	45	46	46	53	53
Colquitt Electric Members Corp.....	22	22	19	20	20	20	25	25
Community Electric Coop.....	2	2	2	2	2	3	2	3
Coweta-Fayette El Member Corp.....	32	36	36	38	37	39	41	43
Crescent Electric Member Corp.....	16	21	17	22	18	23	26	33
Crisp County Power Comm.....	—	—	2	2	2	2	3	3
Davidson Electric Member Corp.....	5	7	6	7	11	13	14	15
Dothan City of.....	17	17	4	5	4	5	4	5
Douglas City of.....	3	4	3	3	3	4	4	4
Duke Power Co.....	45	1,521	70	1,525	6	1,092	102	1,154
Easley Combined Utility System.....	—	—	2	2	0	2	0	2
East Point City of.....	3	8	4	8	4	8	7	14
Elizabeth City City of.....	0	10	0	14	0	6	0	7
Excelsior Electric Member Corp.....	0	4	0	3	0	3	0	3
Fairfield Electric Coop Inc.....	5	21	3	3	3	3	3	3
Fayetteville Public Works Comm.....	1	1	1	1	1	1	2	9
Fitzgerald Wtr Lgt & Bond Comm.....	1	1	1	1	1	1	1	1
Flint Electric Membership Corp.....	44	48	38	38	40	40	48	48
Florida Keys El Coop Assn Inc.....	1	2	2	3	2	3	3	4
Florida Power & Light Co.....	1,331	1,331	1,568	1,568	1,727	1,727	2,333	2,333
Florida Power Corp.....	222	1,438	302	1,505	1,546	1,546	1,762	1,762
Fort Pierce Utilities Auth.....	*	*	*	*	*	*	*	*
Four County Elec Member Corp.....	24	24	—	—	—	—	—	—
Gaffney City of.....	0	*	*	*	1	1	1	1
Gainesville Regional Utilities.....	16	16	16	16	17	17	20	20
Georgia Power Co.....	380	380	507	508	509	510	616	622
Grady County Elec Member Corp.....	5	7	5	7	5	7	6	8
Greenville Utilities Comm.....	31	34	31	34	32	36	43	48
Greer Comm of Public Works.....	—	—	1	1	2	2	2	2
GreyStone Power Corp.....	18	34	24	48	27	53	35	75
Griffin City of.....	2	2	—	—	—	—	—	—
Gulf Power Co.....	141	141	144	144	151	151	182	182
Harrisonburg City of.....	6	6	5	5	14	14	14	14
Hart Electric Member Corp.....	6	7	7	8	7	8	9	10
Haywood Electric Member Corp.....	*	1	*	1	*	1	1	1
High Point Town of.....	8	70	6	72	10	76	0	0
Jackson Electric Member Corp.....	42	42	42	42	42	42	45	45
Jacksonville Electric Auth.....	21	21	24	24	21	21	28	28
Jefferson Electric Member Corp.....	12	13	12	13	13	14	14	16
Jones-Onslow Elec Member Corp.....	12	32	19	43	23	49	34	69
Kinston City of.....	9	9	13	13	20	20	25	25
Kissimmee Utility Authority.....	2	24	2	12	3	16	5	29
Lakeland City of.....	63	67	35	39	44	48	74	83
Lamar Electric Membership Corp.....	1	1	1	1	1	1	1	1
Laurens Electric Coop Inc.....	*	*	*	*	*	*	*	*
Laurinburg City of.....	2	3	2	3	2	3	3	3
Lawrenceville City of.....	4	4	4	4	4	4	5	5
Lee County Electric Coop Inc.....	47	49	55	57	60	62	68	71
Leesburg City of.....	7	8	4	4	4	4	4	4
Lumbee River Elec Member Corp.....	10	16	—	—	—	—	—	—
Lumberton City of.....	*	*	2	5	2	5	2	6
Lynches River Elec Coop Inc.....	2	2	3	3	3	3	4	4

See footnotes at end of table.

**Table 18. U.S. Electric Utility Actual and Potential Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Utility, 1993, 1994, 1995, and 1999**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1993		1994		1995		1999	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
<b>SERC (Continued)</b>								
Manassas City of .....	18	18	12	14	14	14	16	16
Marietta City of .....	2	9	3	10	0	0	0	0
Mecklenburg Electric Coop Inc .....	9	12	13	15	18	23	21	28
Mid-Carolina Electric Coop Inc .....	6	6	9	9	8	8	11	11
Mississippi Power Co .....	*	*	0	0	0	0	0	0
Mitchell Electric Member Corp .....	0	8	0	8	0	9	0	10
Monroe City of .....	3	3	13	17	15	19	27	30
Municipal Electric Authority .....	0	*	0	36	0	61	0	190
New Bern City of .....	5	6	5	6	6	7	9	10
New River Light & Power Co .....	1	3	1	3	9	37	9	37
New Smyrna Beach Utils Comm .....	0	5	10	10	9	10	9	10
Newberry City of .....	0	1	1	1	1	1	1	1
North Carolina Eastern M P A .....	86	86	135	135	0	147	0	237
North Carolina El Member Corp .....	0	115	109	141	0	170	0	231
North Carolina Mun Power Agny .....	58	58	59	59	0	61	0	63
Northern Neck Elec Coop Inc .....	2	2	2	2	3	3	3	3
Northern Virginia Elec Coop .....	26	31	31	32	33	37	41	47
Ocala City of .....	6	8	5	7	1	4	0	6
Orangeburg City of .....	5	5	6	9	6	9	7	9
Orlando Utilities Comm .....	18	18	20	20	29	29	34	36
Palmetto Electric Coop Inc .....	8	13	10	14	11	15	16	22
Pee Dee Electric Member Corp .....	*	*	—	—	—	—	—	—
Piedmont Electric Member Corp .....	14	14	—	—	—	—	—	—
Planters Electric Member Corp .....	0	8	0	7	0	7	0	7
Prince George Electric Coop .....	1	2	1	2	2	2	2	2
Pulaski City of .....	15	20	—	—	—	—	—	—
Randolph Electric Member Corp .....	12	12	—	—	—	—	—	—
Rappahannock Electric Coop .....	35	46	44	54	44	55	51	65
Rayle Electric Membership Corp .....	2	3	2	3	2	3	2	3
Reedy Creek Improvement Dist .....	2	3	2	3	0	1	0	1
Rock Hill City of .....	8	8	5	6	3	3	5	5
Rocky Mount City of .....	18	23	25	38	21	21	46	46
Rutherford Elec Member Corp .....	14	16	—	—	—	—	—	—
Satilla Rural Elec Member Corp .....	9	15	9	15	4	6	5	7
Savannah Electric & Power Co .....	0	0	1	1	2	2	9	9
Sawnee Electric Members Corp .....	15	60	16	62	22	90	35	149
Seneca City of .....	0	2	—	—	—	—	—	—
Shenandoah Valley Elec Coop .....	8	8	9	9	10	10	12	13
Singing River Elec Power Assn .....	3	3	5	5	5	5	5	5
Snapping Shoals El Member Corp .....	7	9	8	10	1	1	1	1
South Carolina Electric & Gas Co .....	143	143	97	205	228	228	304	304
South Carolina Pub Serv Auth .....	155	155	118	236	135	248	207	416
South Mississippi El Pwr Assn .....	33	33	41	41	48	48	51	51
Southside Electric Coop Inc .....	15	18	18	19	16	19	20	24
Sumter Electric Coop Inc .....	31	36	42	49	6	48	8	64
Suwannee Valley Elec Coop Inc .....	0	10	0	13	0	18	0	20
Tallahassee City of .....	59	59	22	22	2	2	10	10
Tampa Electric Co .....	489	670	281	572	219	656	267	747
Tennessee Valley Authority .....	2,386	4,235	2,393	4,442	2,400	4,449	2,430	4,479
Thomasville City of .....	5	5	5	6	5	6	5	6
Tideland Electric Member Corp .....	7	7	—	—	—	—	—	—
Tri-County Elec Member Corp .....	—	—	4	5	4	5	5	6
Tri-County Elec Member Corp .....	3	3	3	3	3	3	6	7
Troup Electric Members Corp .....	0	7	8	8	0	0	0	0
Union City of .....	—	—	0	1	0	1	0	1
Union Electric Membership Corp .....	8	8	—	—	—	—	—	—
Vero Beach City of .....	—	—	9	9	9	9	10	10
Virginia Electric & Power Co .....	206	262	431	431	342	342	473	473
Wake Electric Membership Corp .....	18	20	19	20	19	20	21	23
Walton Electric Member Corp .....	21	27	20	29	28	40	27	38
Washington City of .....	5	7	1	1	2	2	4	4
Washington Elec Member Corp .....	4	4	4	4	4	4	5	6
Wilson City of .....	—	—	41	46	41	46	45	50
Withlacoochee River Elec Coop .....	29	29	30	30	0	*	0	*

See footnotes at end of table.

**Table 18. U.S. Electric Utility Actual and Potential Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Utility, 1993, 1994, 1995, and 1999**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1993		1994		1995		1999	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
<b>SERC (Continued)</b>								
York Electric Coop Inc .....	32	35	34	38	36	39	42	44
<b>SERC Total .....</b>	<b>8,447</b>	<b>14,692</b>	<b>8,562</b>	<b>15,058</b>	<b>9,336</b>	<b>15,270</b>	<b>11,251</b>	<b>17,930</b>
<b>SPP</b>								
Arkansas Electric Coop Corp.....	0	444	0	529	0	529	0	529
Arkansas Power & Light Co.....	166	205	189	189	189	189	200	200
Bailey County Elec Coop Assn .....	7	35	7	35	7	35	7	35
C & L Electric Coop Corp.....	3	10	3	10	5	10	5	10
Caddo Electric Coop Inc .....	10	14	5	27	9	27	10	30
Carroll Electric Coop Corp .....	8	68	9	69	9	70	9	78
Central Rural Electric Coop .....	4	5	5	6	5	5	6	6
Cookson Hills Elec Coop Inc.....	6	23	6	25	7	24	8	30
Cotton Electric Coop Inc.....	0	7	0	7	0	7	0	7
Craighead Electric Coop Corp .....	6	25	7	25	8	26	9	29
Dixie Electric Membership Corp .....	—	—	14	16	14	16	15	18
Duncan City of .....	*	*	1	1	*	*	1	1
Empire District Electric Co.....	25	25	*	31	31	31	34	34
Farmers ' Electric Coop Inc.....	—	—	3	3	0	20	0	20
First Electric Coop Corp .....	20	46	17	27	17	28	19	29
Golden Spread Elec Coop Inc.....	0	44	0	44	0	44	0	44
Gulf States Utilities Co .....	1	126	8	8	135	135	135	135
Independence City of.....	2	4	2	4	4	5	7	7
Indian Electric Coop Inc .....	3	8	3	8	3	7	4	10
Kansas City City of.....	—	—	31	31	0	32	0	36
Kansas City Power & Light Co.....	19	22	25	32	25	32	25	32
Kansas Electric Power Coop Inc .....	8	30	11	33	11	34	11	40
Kansas Gas & Electric Co .....	15	147	8	147	8	147	8	141
Mississippi Cnty Elec Coop Inc.....	1	311	1	354	2	374	162	450
New Orleans Public Service Inc.....	—	—	3	3	3	3	9	9
North Arkansas Elec Coop Inc .....	5	5	5	5	5	5	5	5
Northeast Louisiana Power Coop.....	3	3	6	6	6	6	7	7
Oklahoma Gas & Electric Co .....	239	439	243	443	246	490	254	546
Oklahoma Municipal Power Auth .....	—	—	*	*	*	*	*	*
Osceola City of.....	3	3	3	3	3	3	5	5
Ozark Electric Coop Inc.....	2	2	2	2	0	2	0	2
Petit Jean Electric Coop Corp.....	3	3	3	3	2	2	2	2
Public Service Co of Oklahoma.....	116	116	53	66	2	15	2	15
Red River Valley Rrl Elec Assn.....	5	8	5	7	5	7	3	3
South Central Ark El Coop Inc .....	4	4	5	5	6	7	7	8
South Plains Electric Coop Inc .....	10	24	6	25	13	25	22	38
Southwestern Electric Power Co.....	90	90	70	70	93	93	111	111
Southwestern Public Service Co .....	24	242	25	291	29	465	43	600
Stillwater Utilities Authority .....	—	—	1	1	1	1	1	1
Verdigris Valley Elec Coop Inc.....	11	14	11	14	11	14	11	14
Western Farmers Elec Coop Inc .....	0	50	0	48	0	48	0	48
Western Resources Inc .....	30	177	28	179	28	177	4	154
White River Valley El Coop Inc .....	7	15	9	18	14	18	16	20
Woodruff Electric Coop Corp.....	33	54	22	50	30	56	33	60
<b>SPP Total .....</b>	<b>889</b>	<b>2,846</b>	<b>855</b>	<b>2,898</b>	<b>984</b>	<b>3,265</b>	<b>1,210</b>	<b>3,598</b>
<b>WSCC(U.S.)</b>								
Alameda City of .....	1	2	1	2	1	2	1	1
Anaheim City of .....	5	22	23	35	45	58	52	66
Arizona Electric Pwr Coop Inc.....	1	1	1	1	1	1	8	8
Arizona Public Service Co.....	580	589	476	634	723	738	676	698
Black Hills Corp.....	12	17	—	—	—	—	—	—
Bonneville Power Admin .....	95	177	94	157	0	187	0	0
Boulder City City of.....	—	—	3	3	4	4	*	4
Bountiful City City of .....	7	7	7	7	*	7	1	7
Colton City of.....	*	*	0	0	0	0	0	0
Dixie Escalante R E A Inc.....	—	—	4	9	4	9	5	10
El Paso Electric Co.....	44	44	46	46	55	55	112	120
Eugene City of.....	—	—	37	37	39	39	50	50
Fort Collins City of .....	5	16	5	16	5	16	8	27

See footnotes at end of table.

**Table 18. U.S. Electric Utility Actual and Potential Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Utility, 1993, 1994, 1995, and 1999**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1993		1994		1995		1999	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
<b>WSCC(U.S.) (Continued)</b>								
Idaho Power Co .....	26	26	20	20	25	25	44	44
Imperial Irrigation District.....	8	8	4	4	5	5	8	8
La Plata Electric Assn Inc.....	0	3	0	3	0	3	0	33
Longmont City of .....	4	7	5	8	6	7	10	14
Los Angeles City of.....	71	83	75	87	81	93	84	96
Loveland City of .....	2	8	1	8	2	2	2	2
Modesto Irrigation District .....	16	16	8	21	8	22	11	27
Mohave Electric Coop Inc.....	1	1	*	*	1	1	1	1
Montana Power Co .....	26	94	24	92	42	110	65	65
Mountain Parks Electric Inc.....	—	—	19	19	22	22	25	25
Navapache Electric Coop Inc.....	8	15	7	13	7	12	8	14
Nevada Power Co .....	80	154	113	210	58	58	84	84
Overton Power District No 5 .....	1	1	1	1	1	1	3	4
Pacific Gas & Electric Co .....	837	909	898	970	1,202	1,283	1,452	1,533
PacifiCorp.....	0	300	0	375	0	0	0	0
Palo Alto City of.....	6	9	6	7	6	6	6	6
Pasadena City of .....	3	3	2	5	4	7	10	14
Portland General Electric Co.....	0	0	0	0	0	0	15	15
Provo City Corp.....	—	—	0	0	*	*	1	1
Public Service Co of Colorado.....	122	251	179	237	219	256	281	326
Puget Sound Power & Light Co .....	0	41	0	36	0	46	0	51
PUD No 1 of Chelan County .....	20	20	—	—	—	—	—	—
PUD No 2 of Grant County .....	—	—	19	19	37	37	52	52
Redding City of.....	26	26	7	10	30	31	40	41
Riverside City of.....	6	7	6	8	7	8	8	10
Roseville City of.....	2	8	3	9	4	10	14	21
Sacramento Municipal Util Dist.....	309	309	364	364	355	355	445	445
Salt River Proj Ag I & P Dist.....	112	188	192	210	16	120	89	193
San Diego Gas & Electric Co .....	57	57	69	69	50	50	28	28
Santa Clara City of .....	8	8	6	8	5	8	6	8
Seattle City of .....	38	38	46	46	54	54	89	89
Sierra Pacific Power Co .....	31	31	38	38	43	43	4	4
Southern California Edison Co.....	1,487	3,020	1,616	3,302	1,616	3,324	1,390	3,308
Springfield City of.....	1	1	2	2	*	*	2	2
Sulphur Springs Valley E C Inc.....	3	3	3	3	3	3	4	4
Trico Electric Coop Inc .....	1	3	1	2	1	2	1	2
Tucson Electric Power Co.....	20	20	27	27	31	31	59	59
Turlock Irrigation District.....	7	7	10	10	2	2	2	2
United Power Inc .....	—	—	11	14	11	15	14	18
Vera Irrigation District # 15 .....	7	8	7	8	7	8	7	8
Vernon City of .....	8	14	8	15	8	15	9	17
Washington Water Power Co.....	103	103	84	84	99	99	129	129
Yellowstone Vly Elec Coop Inc .....	4	4	5	5	6	6	10	10
<b>WSCC(U.S.) Total .....</b>	<b>4,210</b>	<b>6,677</b>	<b>4,584</b>	<b>7,314</b>	<b>4,951</b>	<b>7,295</b>	<b>5,424</b>	<b>7,805</b>
<b>Contiguous U.S. ....</b>	<b>23,057</b>	<b>39,483</b>	<b>24,983</b>	<b>42,895</b>	<b>26,737</b>	<b>41,761</b>	<b>34,758</b>	<b>51,402</b>
<b>ASCC</b>								
Alaska Electric Light&Power Co.....	7	7	7	7	5	5	5	5
Golden Valley Elec Assn Inc.....	*	*	1	1	2	2	3	3
<b>ASCC Total .....</b>	<b>7</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>7</b>	<b>7</b>	<b>8</b>	<b>8</b>
<b>Hawaii</b>								
Hawaii Electric Light Co Inc.....	*	*	1	1	1	1	7	7
Hawaiian Electric Co Inc .....	3	3	4	4	5	5	52	52
Maui Electric Co Ltd.....	2	14	5	10	5	10	13	17
<b>Hawaii Total .....</b>	<b>5</b>	<b>18</b>	<b>10</b>	<b>15</b>	<b>12</b>	<b>16</b>	<b>72</b>	<b>77</b>
<b>U.S. Total .....</b>	<b>23,069</b>	<b>39,508</b>	<b>25,001</b>	<b>42,917</b>	<b>26,756</b>	<b>41,784</b>	<b>34,838</b>	<b>51,487</b>

\* Value less than 0.5.

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours. •Totals may not equal sum of components because of independent rounding.

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

**Table 19. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Megawatts)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total DSM Programs
<b>ECAR</b>						
American Mun Power-Ohio Inc .....	0	0	6	1	0	7
Appalachian Power Co.....	23	0	86	1	0	110
Buckeye Power Inc .....	0	92	32	0	0	124
Cincinnati Gas & Electric Co.....	11	0	132	0	0	143
Cleveland Electric Illum Co .....	10	0	0	1	0	11
Columbus Southern Power Co.....	6	0	22	2	0	30
Consumers Power Co.....	55	1	10	1	0	68
Detroit Edison Co.....	31	6	0	0	0	37
East Kentucky Power Coop Inc.....	14	0	0	2	0	17
Indiana Michigan Power Co .....	2	0	55	3	0	61
Indianapolis Power & Light Co.....	3	0	0	1	14	18
Kentucky Power Co .....	6	0	21	0	0	27
Kentucky Utilities Co.....	8	0	0	3	0	11
Kingsport Power Co.....	2	0	0	0	0	2
Lansing City of.....	*	0	0	0	*	*
Louisville Gas & Electric Co .....	0	0	70	0	0	70
Midwest Electric Inc .....	0	7	0	3	0	10
Monongahela Power Co.....	76	0	0	8	0	85
Ohio Edison Co.....	15	0	0	1	0	16
Ohio Power Co.....	4	*	114	10	0	128
Owen Electric Coop Inc.....	1	0	0	0	0	1
Pennsylvania Power Co.....	0	0	40	0	0	40
Potomac Edison Co.....	178	0	2	0	0	180
PSI Energy Inc .....	80	0	27	0	0	107
South Central Power Co .....	0	27	0	0	0	27
Southern Indiana Gas & Elec Co .....	9	19	0	0	0	27
Toledo Edison Co.....	7	0	0	1	0	8
Wabash Valley Power Assn Inc .....	0	40	0	0	0	40
Wadsworth City of .....	0	0	8	0	0	8
West Penn Power Co .....	89	0	9	65	0	163
Wheeling Power Co .....	*	0	0	0	1	1
Wolverine Pwr Supply Coop Inc.....	0	8	0	0	0	8
<b>ECAR Total .....</b>	<b>631</b>	<b>200</b>	<b>634</b>	<b>103</b>	<b>15</b>	<b>1,583</b>
<b>ERCOT</b>						
Austin City of.....	230	3	0	0	3	236
Brazos Electric Power Coop Inc.....	3	0	0	0	0	3
Bryan City of.....	7	0	5	0	0	12
Central Power & Light Co.....	61	0	0	0	15	76
College Station City of .....	*	0	0	0	1	1
Denton City of.....	1	2	0	0	*	2
Garland City of.....	0	6	0	8	0	14
Greenville Electric Util Sys.....	0	0	3	0	1	4
Guadalupe Valley Elec Coop Inc .....	0	7	50	2	0	59
Houston Lighting & Power Co.....	73	0	0	0	0	73
Johnson County Elec Coop Assn .....	1	0	0	2	0	2
Lower Colorado River Authority.....	76	0	0	0	0	76
Magic Valley Electric Coop Inc .....	*	0	0	0	0	*
Medina Electric Coop Inc .....	0	0	0	7	0	7
San Bernard Electric Coop Inc.....	*	2	4	0	0	6
San Marcos City of .....	3	*	0	0	0	3
Texas Utilities Electric Co.....	950	0	0	283	0	1,233
Texas-New Mexico Power Co.....	13	0	15	0	0	28
Tri-County Electric Coop Inc .....	3	0	0	0	0	3
<b>ERCOT Total .....</b>	<b>1,420</b>	<b>20</b>	<b>77</b>	<b>301</b>	<b>19</b>	<b>1,838</b>
<b>MAAC</b>						
A & N Electric Coop .....	0	1	0	0	0	1
Adams Electric Coop Inc.....	*	7	6	0	0	14
Allegheny Electric Coop Inc.....	0	15	0	0	0	15
Atlantic City Electric Co.....	24	0	22	18	0	64
Baltimore Gas & Electric Co.....	104	0	0	0	0	104
Bedford Rural Elec Coop Inc .....	0	2	0	*	0	2
Central Electric Coop Inc .....	0	4	0	0	0	4
Choptank Electric Coop Inc.....	0	0	0	1	4	5
Claverack Rural Elec Coop Inc .....	0	5	0	0	0	5
Conowingo Power Co.....	*	3	0	0	0	3

See footnotes at end of table.

**Table 19. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total DSM Programs
<b>MAAC (Continued)</b>						
Delaware Electric Coop Inc.....	0	7	0	0	0	7
Delmarva Power & Light Co.....	21	114	108	4	0	248
Easton Utilities Comm.....	*	0	0	0	0	*
Jersey Central Power&Light Co.....	22	25	298	0	0	345
Metropolitan Edison Co.....	31	0	67	183	0	281
Northwestern Rural E C A Inc.....	0	6	0	0	0	6
Pennsylvania Electric Co.....	35	0	0	0	0	35
Pennsylvania Power & Light Co.....	7	0	0	2	0	9
Potomac Electric Power Co.....	126	0	0	146	0	272
Public Service Electric&Gas Co.....	34	75	175	0	0	283
PECO Energy Co.....	5	40	0	1	0	46
Somerset Rural Elec Coop Inc.....	0	2	0	0	0	2
Southern Maryland El Coop Inc.....	4	44	0	0	0	48
Southwest Central R E C Corp.....	0	*	0	0	0	*
Tri-County Rural Elec Coop Inc.....	0	1	0	0	0	1
Valley Rural Electric Coop Inc.....	0	2	0	0	0	2
<b>MAAC Total.....</b>	<b>414</b>	<b>353</b>	<b>676</b>	<b>356</b>	<b>4</b>	<b>1,803</b>
<b>MAIN</b>						
Boone Electric Coop.....	2	2	0	0	0	4
Central Illinois Light Co.....	0	*	70	0	0	70
Coles-Moultrie Electric Coop.....	0	3	5	0	0	7
Columbia City of.....	2	7	0	0	0	9
Commonwealth Edison Co.....	2	*	0	22	0	24
Corn Belt Electric Coop Inc.....	0	0	3	0	4	6
Cuivre River Electric Coop Inc.....	0	4	3	0	2	9
Eastern Illini Electric Coop.....	2	4	4	0	0	10
Madison Gas & Electric Co.....	36	0	6	0	0	42
Manitowoc Public Utilities.....	2	0	0	0	0	2
Marshfield City of.....	1	0	0	0	0	1
Shelby Electric Coop Inc.....	0	0	8	0	0	8
Southwestern Electric Coop Inc.....	0	5	5	3	0	13
Springfield City of.....	6	0	0	0	0	6
Tri-County Electric Coop Inc.....	0	2	11	0	0	12
Union Electric Co.....	0	0	140	0	0	140
Wisconsin Electric Power Co.....	340	0	269	10	0	619
Wisconsin Power & Light Co.....	63	0	0	0	0	63
Wisconsin Public Power Inc Sys.....	21	0	0	0	0	21
Wisconsin Public Service Corp.....	100	0	0	11	0	111
<b>MAIN Total.....</b>	<b>576</b>	<b>26</b>	<b>523</b>	<b>46</b>	<b>6</b>	<b>1,177</b>
<b>MAPP(U.S.)</b>						
Ames City of.....	0	1	0	0	0	1
Anoka City of.....	*	*	0	0	0	*
Austin City of.....	7	*	5	0	0	12
Barron Electric Coop.....	*	6	*	0	0	6
Beatrice City of.....	0	1	0	0	0	1
Cass County Electric Coop Inc.....	*	50	5	0	0	55
Cedar Falls City of.....	*	0	0	0	0	*
Central Iowa Power Coop.....	*	0	0	0	0	*
Central Power Elec Coop Inc.....	0	15	0	0	0	15
Clark Electric Coop.....	*	4	*	0	0	4
Coop Power Assn.....	5	0	0	0	0	5
Cornhusker Public Power Dist.....	0	0	1	0	0	1
Dawson County Public Pwr Dist.....	0	0	*	0	0	*
East Grand Forks City of.....	0	2	0	0	0	2
East River Elec Power Coop Inc.....	0	49	0	0	0	49
Fairmont Public Utilities Comm.....	*	2	0	0	0	2
Grant-Lafayette Electric Coop.....	*	5	*	*	0	6
Interstate Power Co.....	9	14	33	0	0	56
Iowa Lakes Electric Coop.....	5	0	1	2	0	8
Iowa-Illinois Gas&Electric Co.....	5	0	0	0	0	5
IES Utilities Inc.....	12	4	0	94	0	110
L & O Power Coop.....	0	2	0	0	0	2
Lexington City of.....	0	1	0	0	0	1

See footnotes at end of table.



**Table 19. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total DSM Programs
<b>MAPP(U.S.) (Continued)</b>						
Lincoln Electric System.....	1	0	0	*	0	2
Loup River Public Power Dist.....	0	0	3	0	0	3
Marshall City of.....	*	1	1	0	0	2
Midland Power Coop.....	*	0	0	0	0	*
Midwest Power Systems Inc.....	46	35	141	0	3	224
Minnesota Power & Light Co.....	12	12	100	0	0	124
Minnkota Power Coop Inc.....	0	291	0	0	0	291
Moorhead City of.....	*	10	2	0	*	12
Mountrail-Williams El Coop Inc.....	2	1	0	0	0	3
Municipal Energy Agency of NE.....	5	14	*	1	0	20
MDU Resources Group Inc.....	0	9	0	0	0	9
Nebraska Public Power District.....	0	2	0	4	0	7
Nodak Electric Coop Inc.....	0	63	0	0	0	63
Norris Public Power District.....	0	0	5	0	0	5
North Platte City of.....	0	4	3	1	0	8
Northern States Power Co of MN.....	296	111	328	41	0	774
Northern States Power Co of WI.....	61	27	25	1	11	125
Northwest Iowa Power Coop.....	11	6	0	0	0	16
Northwestern Public Service Co.....	0	0	*	0	0	*
Northwestern Wisconsin Elec Co.....	*	0	0	*	0	*
Oakdale Electric Coop.....	*	4	0	0	0	4
Oliver-Mercer Elec Coop Inc.....	0	4	0	0	0	4
Omaha Public Power District.....	3	0	0	0	0	3
Otter Tail Power Co.....	18	67	0	0	0	85
Owatonna City of.....	0	5	5	0	0	10
People's Coop Power Assn.....	*	4	0	0	0	4
Pierre City of.....	1	4	*	0	0	5
Polk-Burnett Electric Coop.....	0	8	0	0	0	8
Rice Lake Utilities.....	*	0	0	0	0	*
Rochester Public Utilities.....	0	3	0	1	0	4
Roseau Electric Coop Inc.....	0	19	0	0	0	19
Shakopee Public Utilities Comm.....	0	0	0	1	0	1
Spencer City of.....	*	0	0	0	0	*
Superior Water Light & Power Co.....	2	0	0	0	0	2
Tri-County Electric Coop.....	*	9	0	0	0	9
United Power Assn.....	1	40	0	64	0	105
Vernon Electric Coop.....	*	6	0	0	0	6
Wild Rice Electric Coop Inc.....	0	18	0	0	0	18
<b>MAPP(U.S.) Total.....</b>	<b>505</b>	<b>933</b>	<b>656</b>	<b>211</b>	<b>14</b>	<b>2,319</b>
<b>NPCC(U.S.)</b>						
Arcade Village of.....	*	0	0	0	0	*
Bangor Hydro-Electric Co.....	8	1	0	0	0	9
Blackstone Valley Electric Co.....	0	0	0	1	0	1
Boston Edison Co.....	102	0	13	0	0	114
Braintree Town of.....	*	1	3	0	0	4
Burlington City of.....	8	0	0	0	0	8
Cambridge Electric Light Co.....	17	0	1	0	0	18
Central Hudson Gas & Elec Corp.....	24	0	0	*	0	25
Central Maine Power Co.....	70	22	0	0	0	92
Central Vermont Pub Serv Corp.....	15	0	0	0	0	15
Chicopee City of.....	2	0	0	0	0	2
Citizens Utilities Co.....	1	0	0	0	0	1
Commonwealth Electric Co.....	19	0	2	0	0	22
Concord Electric Co.....	1	0	0	0	0	1
Connecticut Light & Power Co.....	229	18	15	0	0	262
Connecticut Valley Elec Co Inc.....	1	0	5	0	0	6
Consolidated Edison Co-NY Inc.....	483	0	34	0	0	517
Eastern Edison Co.....	0	0	0	6	0	6
Exeter & Hampton Electric Co.....	1	0	0	0	0	1
Fitchburg Gas & Elec Light Co.....	2	0	0	0	0	2
Granite State Electric Co.....	9	0	0	0	0	9
Green Mountain Power Corp.....	11	7	0	0	0	18
Hingham City of.....	*	2	*	0	*	3
Holyoke City of.....	1	0	0	0	*	1
Jamestown City of.....	*	0	0	0	*	*

See footnotes at end of table.

**Table 19. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total DSM Programs
<b>NPCC(U.S.) (Continued)</b>						
Long Island Lighting Co.....	164	0	0	0	0	164
Maine Public Service Co.....	1	0	0	0	*	1
Massachusetts Electric Co.....	159	0	0	0	0	159
Massena Town of.....	0	1	0	0	0	1
Montaup Electric Co.....	34	0	0	0	0	34
Narragansett Electric Co.....	61	0	0	0	0	61
New England Power Co.....	0	11	36	6	0	52
New Hampshire Elec Coop Inc.....	0	7	0	0	0	7
New York State Elec & Gas Corp.....	120	0	0	0	0	120
Niagara Mohawk Power Corp.....	168	0	0	0	0	168
North Attleborough Town of.....	2	0	0	0	0	2
Norwood City of.....	1	*	0	0	0	1
Omya Inc.....	*	0	0	0	0	*
Orange & Rockland Utils Inc.....	60	0	64	0	0	124
Power Authority of State of NY.....	42	0	0	0	0	42
Public Service Co of NH.....	1	0	0	0	0	1
Reading Town of.....	*	0	6	0	0	6
Rochester Gas & Electric Corp.....	54	0	0	0	1	55
Shrewsbury Town of.....	1	2	*	1	0	3
Taunton City of.....	1	0	0	0	0	1
United Illuminating Co.....	41	8	15	2	*	68
Western Massachusetts Elec Co.....	47	11	0	0	0	58
<b>NPCC(U.S.) Total.....</b>	<b>1,959</b>	<b>90</b>	<b>194</b>	<b>16</b>	<b>1</b>	<b>2,261</b>
<b>SERC</b>						
Aiken Electric Coop Inc.....	0	2	0	0	3	4
Alabama Electric Coop Inc.....	7	0	0	0	1	8
Alabama Municipal Elec Auth.....	0	3	0	0	0	3
Alabama Power Co.....	63	0	0	20	0	83
Albemarle City of.....	0	*	*	0	0	*
Altamaha Electric Member Corp.....	*	3	*	0	*	3
Amicalola Electric Member Corp.....	*	1	0	0	0	1
Berkeley Electric Coop Inc.....	5	17	0	0	1	24
Black River Electric Coop Inc.....	1	4	0	0	0	5
Brunswick Electric Member Corp.....	*	16	3	0	0	19
BARC Electric Coop Inc.....	0	2	0	0	0	2
Canochee Electric Member Corp.....	0	2	0	0	0	2
Carolina Power & Light Co.....	515	187	153	125	0	979
Carroll Electric Member Corp.....	*	7	0	10	0	16
Central Florida Elec Coop Inc.....	0	2	0	0	0	2
Central Georgia El Member Corp.....	2	16	0	0	0	18
Central Virginia Electric Coop.....	0	0	13	0	37	50
Choctawhatchee Elec Coop Inc.....	1	0	0	0	*	1
Clay Electric Coop Inc.....	0	50	2	8	0	60
Coastal Electric Member Corp.....	1	2	0	*	0	4
Cobb Electric Membership Corp.....	12	33	0	0	0	45
Colquitt Electric Members Corp.....	0	19	0	0	0	19
Community Electric Coop.....	0	2	0	0	0	2
Coweta-Fayette El Member Corp.....	20	17	0	0	0	36
Crescent Electric Member Corp.....	0	15	2	*	0	17
Crisp County Power Comm.....	0	0	2	0	0	2
Davidson Electric Member Corp.....	0	6	0	0	0	6
Dothan City of.....	0	4	0	0	0	4
Douglas City of.....	*	1	1	0	0	3
Duke Power Co.....	70	0	0	0	0	70
Easley Combined Utility System.....	0	2	0	0	0	2
East Point City of.....	0	4	0	0	0	4
Fairfield Electric Coop Inc.....	0	1	0	0	1	3
Fayetteville Public Works Comm.....	1	0	0	0	0	1
Fitzgerald Wtr Lgt & Bond Comm.....	0	1	0	0	0	1
Flint Electric Membership Corp.....	3	34	0	0	*	38
Florida Keys El Coop Assn Inc.....	0	2	0	0	0	2
Florida Power & Light Co.....	865	703	0	0	0	1,568
Florida Power Corp.....	236	0	0	0	66	302
Fort Pierce Utilities Auth.....	*	0	0	0	0	*
Gaffney City of.....	0	*	0	0	0	*

See footnotes at end of table.

**Table 19. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total DSM Programs
<b>SERC (Continued)</b>						
Gainesville Regional Utilities .....	14	0	0	0	2	16
Georgia Power Co .....	43	15	450	0	0	507
Grady County Elec Member Corp.....	1	3	1	0	1	5
Greenville Utilities Comm .....	5	8	12	0	6	31
Greer Comm of Public Works.....	0	1	0	0	0	1
GreyStone Power Corp .....	0	15	0	0	9	24
Gulf Power Co.....	144	0	0	0	0	144
Harrisonburg City of .....	*	0	3	1	0	5
Hart Electric Member Corp .....	1	6	0	0	0	7
Haywood Electric Member Corp.....	*	*	*	0	0	*
High Point Town of .....	0	6	0	0	0	6
Jackson Electric Member Corp.....	5	34	3	0	0	42
Jacksonville Electric Auth.....	24	0	0	0	0	24
Jefferson Electric Member Corp.....	1	8	3	0	0	12
Jones-Onslow Elec Member Corp.....	0	16	3	0	0	19
Kinston City of .....	0	2	7	4	0	13
Kissimmee Utility Authority.....	2	0	0	0	0	2
Lakeland City of.....	1	35	0	0	0	35
Lamar Electric Membership Corp .....	0	0	0	1	0	1
Laurens Electric Coop Inc .....	*	0	0	0	*	*
Laurinburg City of.....	0	2	0	*	0	2
Lawrenceville City of.....	0	4	1	0	0	4
Lee County Electric Coop Inc .....	4	46	4	0	0	55
Leesburg City of.....	0	1	0	0	3	4
Lumberton City of.....	0	2	0	0	0	2
Lynches River Elec Coop Inc.....	0	2	0	0	2	3
Manassas City of .....	0	2	11	0	0	12
Marietta City of.....	0	3	0	0	0	3
Mecklenburg Electric Coop Inc .....	0	6	1	4	3	13
Mid-Carolina Electric Coop Inc .....	0	4	0	0	5	9
Monroe City of.....	0	1	0	12	0	13
New Bern City of.....	0	5	*	0	0	5
New River Light & Power Co.....	0	1	0	0	0	1
New Smyrna Beach Utils Comm .....	0	10	0	0	0	10
Newberry City of .....	0	1	0	0	0	1
North Carolina Eastern M P A .....	0	41	12	56	27	135
North Carolina El Member Corp.....	0	109	0	0	0	109
North Carolina Mun Power Agny .....	0	21	7	31	0	59
Northern Neck Elec Coop Inc .....	0	2	0	0	0	2
Northern Virginia Elec Coop.....	1	24	6	0	0	31
Ocala City of .....	4	0	1	0	*	5
Orangeburg City of .....	0	0	2	2	1	6
Orlando Utilities Comm.....	20	0	0	0	0	20
Palmetto Electric Coop Inc.....	1	3	3	2	0	10
Prince George Electric Coop .....	0	1	0	0	0	1
Rappahannock Electric Coop.....	0	22	17	0	6	44
Rayle Electric Membership Corp .....	*	1	1	0	0	2
Reedy Creek Improvement Dist .....	2	0	0	0	0	2
Rock Hill City of.....	0	2	0	0	4	5
Rocky Mount City of.....	0	10	0	8	8	25
Satilla Rural Elec Member Corp .....	1	8	0	0	0	9
Savannah Electric & Power Co .....	1	0	0	0	0	1
Sawnee Electric Members Corp .....	*	14	0	1	0	16
Shenandoah Valley Elec Coop .....	0	7	2	*	0	9
Singing River Elec Power Assn .....	3	0	0	2	0	5
Snapping Shoals El Member Corp.....	0	8	0	0	0	8
South Carolina Electric&Gas Co.....	94	0	0	2	0	97
South Carolina Pub Serv Auth .....	22	11	10	75	0	118
South Mississippi El Pwr Assn.....	4	0	0	37	0	41
Southside Electric Coop Inc .....	0	6	7	6	0	18
Sumter Electric Coop Inc.....	5	25	0	11	0	42
Tallahassee City of.....	18	0	0	0	4	22
Tampa Electric Co.....	207	74	0	0	0	281
Tennessee Valley Authority.....	523	70	1,800	0	0	2,393
Thomasville City of.....	*	4	0	*	0	5
Tri-County Elec Member Corp.....	0	4	0	*	0	4
Tri-County Elec Member Corp.....	0	2	*	0	0	3

See footnotes at end of table.

**Table 19. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total DSM Programs
<b>SERC (Continued)</b>						
Troup Electric Members Corp .....	0	8	0	0	0	8
Vero Beach City of .....	9	0	0	0	0	9
Virginia Electric & Power Co .....	56	208	131	36	0	431
Wake Electric Membership Corp .....	3	7	9	0	0	19
Walton Electric Member Corp.....	0	17	0	0	4	20
Washington City of .....	0	1	0	0	0	1
Washington Elec Member Corp .....	0	4	0	0	0	4
Wilson City of .....	0	11	22	8	0	41
Withlacoochee River Elec Coop.....	0	1	0	29	0	30
York Electric Coop Inc .....	1	0	33	0	0	34
<b>SERC Total</b> .....	<b>3,023</b>	<b>2,118</b>	<b>2,736</b>	<b>494</b>	<b>192</b>	<b>8,562</b>
<b>SPP</b>						
Arkansas Power & Light Co.....	0	100	89	0	0	189
Bailey County Elec Coop Assn .....	0	0	7	0	0	7
C & L Electric Coop Corp .....	0	0	3	0	0	3
Caddo Electric Coop Inc.....	0	5	0	0	0	5
Carroll Electric Coop Corp.....	0	9	0	0	0	9
Central Rural Electric Coop.....	0	5	0	0	0	5
Cookson Hills Elec Coop Inc .....	0	6	0	0	0	6
Craighead Electric Coop Corp.....	0	0	7	0	1	7
Dixie Electric Membership Corp.....	0	14	0	0	0	14
Duncan City of .....	1	0	0	0	0	1
Empire District Electric Co.....	0	0	0	0	*	*
Farmers ' Electric Coop Inc .....	0	0	3	0	0	3
First Electric Coop Corp .....	1	16	0	0	0	17
Gulf States Utilities Co .....	8	0	0	0	0	8
Independence City of .....	2	0	0	0	0	2
Indian Electric Coop Inc .....	0	3	0	0	0	3
Kansas City City of.....	0	0	31	0	0	31
Kansas City Power & Light Co.....	0	6	19	0	0	25
Kansas Electric Power Coop Inc .....	0	0	11	0	0	11
Kansas Gas & Electric Co.....	0	0	0	0	8	8
Mississippi Cnty Elec Coop Inc .....	0	1	0	0	0	1
New Orleans Public Service Inc.....	3	0	0	0	0	3
North Arkansas Elec Coop Inc .....	0	5	0	0	0	5
Northeast Louisiana Power Coop .....	0	0	0	6	0	6
Oklahoma Gas & Electric Co.....	72	0	0	171	0	243
Oklahoma Municipal Power Auth .....	0	0	0	0	*	*
Osceola City of.....	0	0	3	0	0	3
Ozark Electric Coop Inc .....	0	0	2	0	0	2
Petit Jean Electric Coop Corp.....	0	2	*	0	0	3
Public Service Co of Oklahoma .....	53	0	0	0	0	53
Red River Valley Rrl Elec Assn.....	*	0	3	0	1	5
South Central Ark El Coop Inc .....	0	0	0	5	0	5
South Plains Electric Coop Inc.....	1	5	0	0	0	6
Southwestern Electric Power Co .....	10	0	60	0	0	70
Southwestern Public Service Co.....	25	0	0	0	0	25
Stillwater Utilities Authority.....	0	0	0	1	0	1
Verdigris Valley Elec Coop Inc .....	0	10	1	0	0	11
Western Resources Inc.....	0	26	0	0	2	28
White River Valley El Coop Inc.....	0	0	9	0	0	9
Woodruff Electric Coop Corp.....	0	20	0	2	0	22
<b>SPP Total</b> .....	<b>177</b>	<b>232</b>	<b>249</b>	<b>185</b>	<b>13</b>	<b>855</b>
<b>WSCC(U.S.)</b>						
Alameda City of .....	1	0	0	0	0	1
Anaheim City of .....	9	1	6	7	0	23
Arizona Electric Pwr Coop Inc.....	1	0	0	0	0	1
Arizona Public Service Co.....	423	0	0	53	0	476
Bonneville Power Admin.....	0	0	94	0	0	94
Boulder City City of .....	*	0	0	2	1	3
Bountiful City City of.....	*	0	7	0	0	7
Dixie Escalante R E A Inc .....	0	0	4	0	0	4
El Paso Electric Co .....	8	0	34	5	0	46

See footnotes at end of table.

**Table 19. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total DSM Programs
<b>WSCC(U.S.) (Continued)</b>						
Eugene City of.....	37	0	0	0	0	37
Fort Collins City of.....	0	2	3	0	0	5
Idaho Power Co.....	20	0	0	0	0	20
Imperial Irrigation District.....	4	0	0	0	*	4
Longmont City of.....	1	2	0	*	2	5
Los Angeles City of.....	64	0	0	11	0	75
Loveland City of.....	*	0	0	1	1	1
Modesto Irrigation District.....	8	0	0	0	0	8
Mohave Electric Coop Inc.....	*	0	0	0	0	*
Montana Power Co.....	24	0	0	0	0	24
Mountain Parks Electric Inc.....	0	0	0	19	0	19
Navopache Electric Coop Inc.....	*	*	0	5	2	7
Nevada Power Co.....	35	47	26	5	0	113
Overton Power District No 5.....	*	0	1	0	0	1
Pacific Gas & Electric Co.....	381	0	503	14	0	898
Palo Alto City of.....	6	0	0	0	0	6
Pasadena City of.....	2	0	0	*	0	2
Public Service Co of Colorado.....	24	0	155	0	0	179
PUD No 2 of Grant County.....	1	0	0	18	0	19
Redding City of.....	3	1	2	1	0	7
Riverside City of.....	3	0	0	4	*	6
Roseville City of.....	2	2	0	0	0	3
Sacramento Municipal Util Dist.....	93	139	60	22	49	364
Salt River Proj Ag I & P Dist.....	82	1	57	50	1	192
San Diego Gas & Electric Co.....	32	0	31	4	*	69
Santa Clara City of.....	*	0	6	0	0	6
Seattle City of.....	46	0	0	0	0	46
Sierra Pacific Power Co.....	38	0	0	0	0	38
Southern California Edison Co.....	1,484	0	0	132	0	1,616
Springfield City of.....	2	0	0	0	0	2
Sulphur Springs Valley E C Inc.....	1	2	0	0	0	3
Trico Electric Coop Inc.....	0	0	1	0	0	1
Tucson Electric Power Co.....	20	0	7	0	0	27
Turlock Irrigation District.....	10	0	0	0	0	10
United Power Inc.....	*	0	1	10	0	11
Vera Irrigation District # 15.....	0	7	0	0	0	7
Vernon City of.....	0	0	0	8	*	8
Washington Water Power Co.....	84	0	0	0	0	84
Yellowstone Vily Elec Coop Inc.....	0	0	0	5	0	5
<b>WSCC(U.S.) Total.....</b>	<b>2,950</b>	<b>203</b>	<b>998</b>	<b>376</b>	<b>57</b>	<b>4,584</b>
<b>Contiguous U.S.....</b>	<b>11,655</b>	<b>4,176</b>	<b>6,743</b>	<b>2,088</b>	<b>321</b>	<b>24,983</b>
<b>ASCC</b>						
Alaska Electric Light&Power Co.....	0	2	0	0	4	7
Golden Valley Elec Assn Inc.....	1	0	0	0	0	1
<b>ASCC Total.....</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>8</b>
<b>Hawaii</b>						
Hawaii Electric Light Co Inc.....	1	0	0	0	0	1
Hawaiian Electric Co Inc.....	4	0	0	0	0	4
Maui Electric Co Ltd.....	1	0	0	4	0	5
<b>Hawaii Total.....</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>10</b>
<b>U.S. Total.....</b>	<b>11,662</b>	<b>4,179</b>	<b>6,743</b>	<b>2,092</b>	<b>326</b>	<b>25,001</b>

\* Value less than 0.5.

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours. •Totals may not equal sum of components because of independent rounding.

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

**Table 20. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Megawatts)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>ECAR</b>						
American Mun Power-Ohio Inc.....	Publicly Owned	0	0	6	1	7
Appalachian Power Co.....	Investor-Owned	24	*	86	0	110
Buckeye Power Inc.....	Cooperative	92	0	32	0	124
Cincinnati Gas & Electric Co.....	Investor-Owned	*	10	132	0	143
Cleveland Electric Illum Co.....	Investor-Owned	3	3	5	0	11
Columbus Southern Power Co.....	Investor-Owned	8	0	22	0	30
Consumers Power Co.....	Investor-Owned	6	26	35	0	68
Detroit Edison Co.....	Investor-Owned	12	9	16	0	37
East Kentucky Power Coop Inc.....	Cooperative	17	0	0	0	17
Indiana Michigan Power Co.....	Investor-Owned	5	1	55	0	61
Indianapolis Power & Light Co.....	Investor-Owned	1	5	12	0	18
Kentucky Power Co.....	Investor-Owned	6	0	21	0	27
Kentucky Utilities Co.....	Investor-Owned	11	*	0	0	11
Kingsport Power Co.....	Investor-Owned	2	0	0	0	2
Lansing City of.....	Publicly Owned	0	*	0	0	*
Louisville Gas & Electric Co.....	Investor-Owned	0	0	70	0	70
Midwest Electric Inc.....	Cooperative	7	0	3	0	10
Monongahela Power Co.....	Investor-Owned	23	28	34	0	85
Ohio Edison Co.....	Investor-Owned	5	6	5	0	16
Ohio Power Co.....	Investor-Owned	14	0	114	0	128
Owen Electric Coop Inc.....	Cooperative	1	*	*	0	1
Pennsylvania Power Co.....	Investor-Owned	0	0	40	0	40
Potomac Edison Co.....	Investor-Owned	77	37	67	0	180
PSI Energy Inc.....	Investor-Owned	16	49	39	4	107
South Central Power Co.....	Cooperative	21	3	4	0	27
Southern Indiana Gas & Elec Co.....	Investor-Owned	22	3	2	0	27
Toledo Edison Co.....	Investor-Owned	2	3	3	0	8
Wabash Valley Power Assn Inc.....	Cooperative	40	0	0	0	40
Wadsworth City of.....	Publicly Owned	0	0	8	0	8
West Penn Power Co.....	Investor-Owned	14	25	124	0	163
Wheeling Power Co.....	Investor-Owned	1	0	0	0	1
Wolverine Pwr Supply Coop Inc.....	Cooperative	8	0	0	0	8
<b>ECAR Total.....</b>		<b>438</b>	<b>207</b>	<b>934</b>	<b>4</b>	<b>1,583</b>
<b>ERCOT</b>						
Austin City of.....	Publicly Owned	166	70	0	0	236
Brazos Electric Power Coop Inc.....	Cooperative	3	*	0	0	3
Bryan City of.....	Publicly Owned	7	5	0	0	12
Central Power & Light Co.....	Investor-Owned	31	45	0	0	76
College Station City of.....	Publicly Owned	*	1	0	0	1
Denton City of.....	Publicly Owned	2	0	*	0	2
Garland City of.....	Publicly Owned	6	*	8	*	14
Greenville Electric Util Sys.....	Publicly Owned	0	0	4	0	4
Guadalupe Valley Elec Coop Inc.....	Cooperative	7	*	50	2	59
Houston Lighting & Power Co.....	Investor-Owned	44	26	3	0	73
Johnson County Elec Coop Assn.....	Cooperative	1	2	0	0	2
Lower Colorado River Authority.....	Publicly Owned	73	3	0	0	76
Magic Valley Electric Coop Inc.....	Cooperative	*	0	*	0	*
Medina Electric Coop Inc.....	Cooperative	0	0	7	0	7
San Bernard Electric Coop Inc.....	Cooperative	2	0	4	0	6
San Marcos City of.....	Publicly Owned	3	1	0	0	3
Texas Utilities Electric Co.....	Investor-Owned	543	690	0	0	1,233
Texas-New Mexico Power Co.....	Investor-Owned	12	16	0	0	28
Tri-County Electric Coop Inc.....	Cooperative	3	*	0	0	3
<b>ERCOT Total.....</b>		<b>902</b>	<b>858</b>	<b>76</b>	<b>2</b>	<b>1,838</b>
<b>MAAC</b>						
A & N Electric Coop.....	Cooperative	1	0	0	0	1
Adams Electric Coop Inc.....	Cooperative	7	0	6	0	14
Allegheny Electric Coop Inc.....	Cooperative	15	0	0	0	15
Atlantic City Electric Co.....	Investor-Owned	31	20	13	0	64
Baltimore Gas & Electric Co.....	Investor-Owned	25	79	0	0	104
Bedford Rural Elec Coop Inc.....	Cooperative	2	0	0	0	2
Central Electric Coop Inc.....	Cooperative	4	0	0	0	4
Choptank Electric Coop Inc.....	Cooperative	4	0	1	0	5
Claverack Rural Elec Coop Inc.....	Cooperative	5	0	0	0	5
Conowingo Power Co.....	Investor-Owned	3	0	0	0	3
Delaware Electric Coop Inc.....	Cooperative	7	0	0	0	7
Delmarva Power & Light Co.....	Investor-Owned	57	82	108	0	248

See footnotes at end of table.

**Table 20. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>MAAC (Continued)</b>						
Easton Utilities Comm .....	Publicly Owned	*	0	0	0	*
Jersey Central Power&Light Co .....	Investor-Owned	31	157	157	0	345
Metropolitan Edison Co .....	Investor-Owned	93	39	149	0	281
Northwestern Rural E C A Inc .....	Cooperative	6	0	0	0	6
Pennsylvania Electric Co.....	Investor-Owned	3	*	32	0	35
Pennsylvania Power & Light Co .....	Investor-Owned	5	4	0	0	9
Potomac Electric Power Co .....	Investor-Owned	65	208	0	0	272
Public Service Electric&Gas Co .....	Investor-Owned	89	115	79	0	283
PECO Energy Co.....	Investor-Owned	45	1	0	0	46
Somerset Rural Elec Coop Inc.....	Cooperative	2	0	0	0	2
Southern Maryland El Coop Inc.....	Cooperative	48	0	0	0	48
Southwest Central R E C Corp.....	Cooperative	*	0	0	0	*
Tri-County Rural Elec Coop Inc.....	Cooperative	1	0	0	0	1
Valley Rural Electric Coop Inc.....	Cooperative	2	0	0	0	2
<b>MAAC Total .....</b>		<b>552</b>	<b>705</b>	<b>547</b>	<b>0</b>	<b>1,803</b>
<b>MAIN</b>						
Boone Electric Coop .....	Cooperative	4	0	0	0	4
Central Illinois Light Co .....	Investor-Owned	*	70	0	0	70
Coles-Moultrie Electric Coop .....	Cooperative	3	0	5	0	7
Columbia City of .....	Publicly Owned	7	1	1	0	9
Commonwealth Edison Co.....	Investor-Owned	2	22	1	0	24
Corn Belt Electric Coop Inc .....	Cooperative	4	3	0	0	6
Cuivre River Electric Coop Inc .....	Cooperative	6	3	0	0	9
Eastern Illini Electric Coop.....	Cooperative	6	0	4	0	10
Madison Gas & Electric Co.....	Investor-Owned	5	33	0	3	42
Manitowoc Public Utilities.....	Publicly Owned	1	1	1	0	2
Marshfield City of .....	Publicly Owned	*	1	*	0	1
Shelby Electric Coop Inc .....	Cooperative	0	3	6	0	8
Southwestern Electric Coop Inc.....	Cooperative	7	3	3	0	13
Springfield City of.....	Publicly Owned	4	1	0	0	6
Tri-County Electric Coop Inc .....	Cooperative	2	7	4	0	12
Union Electric Co.....	Investor-Owned	0	0	140	0	140
Wisconsin Electric Power Co .....	Investor-Owned	114	171	333	0	619
Wisconsin Power & Light Co.....	Investor-Owned	7	51	5	0	63
Wisconsin Public Power Inc Sys.....	Publicly Owned	2	7	11	0	21
Wisconsin Public Service Corp.....	Investor-Owned	38	65	0	8	111
<b>MAIN Total.....</b>		<b>211</b>	<b>442</b>	<b>513</b>	<b>11</b>	<b>1,177</b>
<b>MAPP(U.S.)</b>						
Ames City of .....	Publicly Owned	1	0	0	0	1
Anoka City of .....	Publicly Owned	*	*	*	0	*
Austin City of .....	Publicly Owned	*	7	5	0	12
Barron Electric Coop.....	Cooperative	6	0	*	0	6
Beatrice City of .....	Publicly Owned	1	*	0	0	1
Cass County Electric Coop Inc.....	Cooperative	42	8	5	0	55
Cedar Falls City of .....	Publicly Owned	*	*	0	0	*
Central Iowa Power Coop.....	Cooperative	*	0	0	0	*
Central Power Elec Coop Inc .....	Cooperative	5	7	3	0	15
Clark Electric Coop.....	Cooperative	3	0	1	0	4
Coop Power Assn.....	Cooperative	1	4	0	0	5
Cornhusker Public Power Dist.....	Publicly Owned	0	0	1	0	1
Dawson County Public Pwr Dist .....	Publicly Owned	0	0	*	0	*
East Grand Forks City of .....	Publicly Owned	2	*	0	0	2
East River Elec Power Coop Inc .....	Cooperative	43	0	6	0	49
Fairmont Public Utilities Comm .....	Publicly Owned	0	2	0	0	2
Grant-Lafayette Electric Coop .....	Cooperative	4	0	2	0	6
Interstate Power Co .....	Investor-Owned	15	5	36	0	56
Iowa Lakes Electric Coop.....	Cooperative	5	1	2	*	8
Iowa-Illinois Gas&Electric Co.....	Investor-Owned	3	1	1	0	5
IES Utilities Inc .....	Investor-Owned	41	27	41	0	110
L & O Power Coop .....	Cooperative	2	0	0	0	2
Lexington City of .....	Publicly Owned	1	0	0	0	1
Lincoln Electric System .....	Publicly Owned	1	1	0	*	2
Loup River Public Power Dist.....	Publicly Owned	0	0	3	0	3
Marshall City of.....	Publicly Owned	1	1	1	0	2
Midland Power Coop.....	Cooperative	*	0	0	0	*
Midwest Power Systems Inc .....	Investor-Owned	57	26	141	0	224

See footnotes at end of table.

**Table 20. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>MAPP(U.S.) (Continued)</b>						
Minnesota Power & Light Co.....	Investor-Owned	5	3	116	0	124
Minnkota Power Coop Inc.....	Cooperative	270	21	0	0	291
Moorhead City of.....	Publicly Owned	9	*	3	0	12
Mountrail-Williams El Coop Inc.....	Cooperative	3	0	0	0	3
Municipal Energy Agency of NE.....	Publicly Owned	4	9	8	0	20
MDU Resources Group Inc.....	Investor-Owned	9	*	0	0	9
Nebraska Public Power District.....	Publicly Owned	0	0	7	0	7
Nodak Electric Coop Inc.....	Cooperative	45	14	2	1	63
Norris Public Power District.....	Publicly Owned	0	0	5	0	5
North Platte City of.....	Publicly Owned	3	1	*	3	8
Northern States Power Co of MN.....	Investor-Owned	195	341	239	0	774
Northern States Power Co of WI.....	Investor-Owned	42	36	46	*	125
Northwest Iowa Power Coop.....	Cooperative	16	*	0	0	16
Northwestern Public Service Co.....	Investor-Owned	0	*	0	*	*
Northwestern Wisconsin Elec Co.....	Investor-Owned	*	*	*	0	*
Oakdale Electric Coop.....	Cooperative	4	0	*	0	4
Oliver-Mercer Elec Coop Inc.....	Cooperative	2	0	2	0	4
Omaha Public Power District.....	Publicly Owned	3	1	0	0	3
Otter Tail Power Co.....	Investor-Owned	52	21	4	9	85
Owatonna City of.....	Publicly Owned	5	*	5	0	10
People's Coop Power Assn.....	Cooperative	4	0	*	0	4
Pierre City of.....	Publicly Owned	4	1	*	0	5
Polk-Burnett Electric Coop.....	Cooperative	8	0	0	0	8
Rice Lake Utilities.....	Publicly Owned	*	*	*	0	*
Rochester Public Utilities.....	Publicly Owned	3	1	*	0	4
Roseau Electric Coop Inc.....	Cooperative	19	0	0	0	19
Shakopee Public Utilities Comm.....	Publicly Owned	0	1	0	0	1
Spencer City of.....	Publicly Owned	*	*	0	0	*
Superior Water Light&Power Co.....	Investor-Owned	*	*	2	0	2
Tri-County Electric Coop.....	Cooperative	9	0	*	0	9
United Power Assn.....	Cooperative	105	1	0	0	105
Vernon Electric Coop.....	Cooperative	6	0	1	0	6
Wild Rice Electric Coop Inc.....	Cooperative	17	1	0	0	18
<b>MAPP(U.S.) Total</b> .....		<b>1,076</b>	<b>542</b>	<b>687</b>	<b>15</b>	<b>2,319</b>
<b>NPCC(U.S.)</b>						
Arcade Village of.....	Publicly Owned	*	0	0	0	*
Bangor Hydro-Electric Co.....	Investor-Owned	5	2	1	0	9
Blackstone Valley Electric Co.....	Investor-Owned	1	0	0	0	1
Boston Edison Co.....	Investor-Owned	26	70	18	0	114
Braintree Town of.....	Publicly Owned	*	*	3	0	4
Burlington City of.....	Publicly Owned	5	1	2	0	8
Cambridge Electric Light Co.....	Investor-Owned	*	18	0	0	18
Central Hudson Gas & Elec Corp.....	Investor-Owned	2	20	3	0	25
Central Maine Power Co.....	Investor-Owned	38	27	27	0	92
Central Vermont Pub Serv Corp.....	Investor-Owned	6	5	3	0	15
Chicopee City of.....	Publicly Owned	1	1	*	0	2
Citizens Utilities Co.....	Investor-Owned	1	*	*	*	1
Commonwealth Electric Co.....	Investor-Owned	3	18	0	0	22
Concord Electric Co.....	Investor-Owned	*	*	*	0	1
Connecticut Light & Power Co.....	Investor-Owned	96	130	18	18	262
Connecticut Valley Elec Co Inc.....	Investor-Owned	*	*	*	5	6
Consolidated Edison Co-NY Inc.....	Investor-Owned	35	482	0	0	517
Eastern Edison Co.....	Investor-Owned	6	0	0	0	6
Exeter & Hampton Electric Co.....	Investor-Owned	1	*	*	0	1
Fitchburg Gas & Elec Light Co.....	Investor-Owned	*	1	1	0	2
Granite State Electric Co.....	Investor-Owned	1	5	3	0	9
Green Mountain Power Corp.....	Investor-Owned	10	9	0	0	18
Hingham City of.....	Publicly Owned	3	*	*	0	3
Holyoke City of.....	Publicly Owned	1	*	0	0	1
Jamestown City of.....	Publicly Owned	*	*	*	0	*
Long Island Lighting Co.....	Investor-Owned	43	120	0	0	164
Maine Public Service Co.....	Investor-Owned	1	*	0	*	1
Massachusetts Electric Co.....	Investor-Owned	16	89	54	0	159
Massena Town of.....	Publicly Owned	1	0	0	0	1
Montaup Electric Co.....	Investor-Owned	6	21	8	0	34
Narragansett Electric Co.....	Investor-Owned	6	34	21	0	61
New England Power Co.....	Investor-Owned	11	0	42	0	52

See footnotes at end of table.



**Table 20. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>NPCC(U.S.) (Continued)</b>						
New Hampshire Elec Coop Inc .....	Cooperative	7	*	0	0	7
New York State Elec & Gas Corp .....	Investor-Owned	62	58	0	0	120
Niagara Mohawk Power Corp .....	Investor-Owned	45	109	13	0	168
North Attleborough Town of .....	Publicly Owned	1	*	*	*	2
Norwood City of .....	Publicly Owned	1	*	*	0	1
Omya Inc .....	Investor-Owned	*	0	0	*	*
Orange & Rockland Utils Inc .....	Investor-Owned	23	101	0	0	124
Power Authority of State of NY .....	Publicly Owned	14	28	0	0	42
Public Service Co of NH .....	Investor-Owned	1	*	*	0	1
Reading Town of .....	Publicly Owned	*	6	0	0	6
Rochester Gas & Electric Corp .....	Investor-Owned	12	17	26	0	55
Shrewsbury Town of .....	Publicly Owned	2	*	1	*	3
Taunton City of .....	Publicly Owned	*	*	0	0	1
United Illuminating Co .....	Investor-Owned	15	21	32	0	68
Western Massachusetts Elec Co .....	Investor-Owned	32	21	3	1	58
<b>NPCC(U.S.) Total .....</b>		<b>538</b>	<b>1,417</b>	<b>281</b>	<b>25</b>	<b>2,261</b>
<b>SERC</b>						
Aiken Electric Coop Inc .....	Cooperative	4	0	0	0	4
Alabama Electric Coop Inc .....	Cooperative	8	0	0	0	8
Alabama Municipal Elec Auth .....	Publicly Owned	3	*	0	0	3
Alabama Power Co .....	Investor-Owned	63	20	0	0	83
Albemarle City of .....	Publicly Owned	*	0	*	0	*
Altamaha Electric Member Corp .....	Cooperative	2	1	0	*	3
Amicalola Electric Member Corp .....	Cooperative	1	0	0	0	1
Berkeley Electric Coop Inc .....	Cooperative	21	2	0	0	24
Black River Electric Coop Inc .....	Cooperative	5	0	0	0	5
Brunswick Electric Member Corp .....	Cooperative	16	3	0	0	19
BARC Electric Coop Inc .....	Cooperative	2	0	0	0	2
Canoochee Electric Member Corp .....	Cooperative	1	0	0	1	2
Carolina Power & Light Co .....	Investor-Owned	371	127	481	0	979
Carroll Electric Member Corp .....	Cooperative	9	*	7	*	16
Central Florida Elec Coop Inc .....	Cooperative	2	0	0	0	2
Central Georgia El Member Corp .....	Cooperative	15	0	3	0	18
Central Virginia Electric Coop .....	Cooperative	0	13	0	37	50
Choctawhatche Elec Coop Inc .....	Cooperative	1	0	0	0	1
Clay Electric Coop Inc .....	Cooperative	58	0	2	0	60
Coastal Electric Member Corp .....	Cooperative	4	0	0	0	4
Cobb Electric Membership Corp .....	Cooperative	44	0	0	2	45
Colquitt Electric Members Corp .....	Cooperative	6	1	13	0	19
Community Electric Coop .....	Cooperative	2	0	0	0	2
Coweta-Fayette El Member Corp .....	Cooperative	36	0	0	0	36
Crescent Electric Member Corp .....	Cooperative	15	1	1	*	17
Crisp County Power Comm .....	Publicly Owned	0	0	2	0	2
Davidson Electric Member Corp .....	Cooperative	5	*	0	0	6
Dothan City of .....	Publicly Owned	4	0	0	0	4
Douglas City of .....	Publicly Owned	1	1	1	0	3
Duke Power Co .....	Investor-Owned	56	14	0	0	70
Easley Combined Utility System .....	Publicly Owned	2	0	0	0	2
East Point City of .....	Publicly Owned	1	2	0	0	4
Fairfield Electric Coop Inc .....	Cooperative	3	0	0	0	3
Fayetteville Public Works Comm .....	Publicly Owned	1	0	0	0	1
Fitzgerald Wtr Lgt & Bond Comm .....	Publicly Owned	1	0	0	0	1
Flint Electric Membership Corp .....	Cooperative	29	1	1	7	38
Florida Keys El Coop Assn Inc .....	Cooperative	1	*	*	0	2
Florida Power & Light Co .....	Investor-Owned	1,014	554	0	0	1,568
Florida Power Corp .....	Investor-Owned	159	43	82	18	302
Fort Pierce Utilities Auth .....	Publicly Owned	*	0	0	0	*
Gaffney City of .....	Publicly Owned	0	*	0	0	*
Gainesville Regional Utilities .....	Publicly Owned	9	7	0	0	16
Georgia Power Co .....	Investor-Owned	27	45	435	0	507
Grady County Elec Member Corp .....	Cooperative	4	0	1	0	5
Greenville Utilities Comm .....	Publicly Owned	16	2	13	0	31
Greer Comm of Public Works .....	Publicly Owned	1	0	0	0	1
GreyStone Power Corp .....	Cooperative	15	2	0	7	24
Gulf Power Co .....	Investor-Owned	66	78	0	0	144
Harrisonburg City of .....	Publicly Owned	1	1	3	0	5
Hart Electric Member Corp .....	Cooperative	7	0	0	0	7

See footnotes at end of table.

**Table 20. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>SERC (Continued)</b>						
Haywood Electric Member Corp.....	Cooperative	*	*	*	0	*
High Point Town of.....	Publicly Owned	3	3	0	0	6
Jackson Electric Member Corp.....	Cooperative	36	3	3	0	42
Jacksonville Electric Auth.....	Publicly Owned	20	4	0	0	24
Jefferson Electric Member Corp.....	Cooperative	8	1	*	3	12
Jones-Onslow Elec Member Corp.....	Cooperative	16	3	0	0	19
Kinston City of.....	Publicly Owned	1	*	6	6	13
Kissimmee Utility Authority.....	Publicly Owned	2	*	0	*	2
Lakeland City of.....	Publicly Owned	35	0	0	0	35
Lamar Electric Membership Corp.....	Cooperative	0	0	1	*	1
Laurens Electric Coop Inc.....	Cooperative	*	*	0	0	*
Laurinburg City of.....	Publicly Owned	2	*	0	0	2
Lawrenceville City of.....	Publicly Owned	2	1	0	2	4
Lee County Electric Coop Inc.....	Cooperative	50	5	0	0	55
Leesburg City of.....	Publicly Owned	1	0	3	0	4
Lumberton City of.....	Publicly Owned	2	0	0	0	2
Lynches River Elec Coop Inc.....	Cooperative	3	0	0	0	3
Manassas City of.....	Publicly Owned	2	5	5	0	12
Marietta City of.....	Publicly Owned	3	*	0	0	3
Mecklenburg Electric Coop Inc.....	Cooperative	8	*	4	*	13
Mid-Carolina Electric Coop Inc.....	Cooperative	9	0	0	0	9
Monroe City of.....	Publicly Owned	1	0	12	0	13
New Bern City of.....	Publicly Owned	5	*	0	0	5
New River Light & Power Co.....	Publicly Owned	1	*	0	0	1
New Smyrna Beach Utils Comm.....	Publicly Owned	10	0	0	0	10
Newberry City of.....	Publicly Owned	1	0	0	0	1
North Carolina Eastern M P A.....	Publicly Owned	33	13	48	41	135
North Carolina El Member Corp.....	Cooperative	109	0	0	0	109
North Carolina Mun Power Agny.....	Publicly Owned	19	2	7	31	59
Northern Neck Elec Coop Inc.....	Cooperative	2	*	0	0	2
Northern Virginia Elec Coop.....	Cooperative	20	4	6	0	31
Ocala City of.....	Publicly Owned	4	*	1	0	5
Orangeburg City of.....	Publicly Owned	2	1	2	1	6
Orlando Utilities Comm.....	Publicly Owned	18	2	0	0	20
Palmetto Electric Coop Inc.....	Cooperative	6	3	0	0	10
Prince George Electric Coop.....	Cooperative	1	0	0	0	1
Rappahannock Electric Coop.....	Cooperative	22	0	22	0	44
Rayle Electric Membership Corp.....	Cooperative	1	*	1	0	2
Reedy Creek Improvement Dist.....	Publicly Owned	0	2	0	0	2
Rock Hill City of.....	Publicly Owned	5	0	0	0	5
Rocky Mount City of.....	Publicly Owned	11	1	14	0	25
Satilla Rural Elec Member Corp.....	Cooperative	5	2	0	2	9
Savannah Electric & Power Co.....	Investor-Owned	1	*	0	0	1
Sawnee Electric Members Corp.....	Cooperative	15	*	1	0	16
Shenandoah Valley Elec Coop.....	Cooperative	7	2	0	0	9
Singing River Elec Power Assn.....	Cooperative	3	0	2	0	5
Snapping Shoals El Member Corp.....	Cooperative	8	0	0	0	8
South Carolina Electric&Gas Co.....	Investor-Owned	81	15	*	0	97
South Carolina Pub Serv Auth.....	Publicly Owned	33	1	85	0	118
South Mississippi El Pwr Assn.....	Cooperative	4	0	37	0	41
Southside Electric Coop Inc.....	Cooperative	6	0	7	6	18
Sumter Electric Coop Inc.....	Cooperative	29	1	11	0	42
Tallahassee City of.....	Publicly Owned	21	*	0	0	22
Tampa Electric Co.....	Investor-Owned	256	22	2	0	281
Tennessee Valley Authority.....	Federal	593	0	1,800	0	2,393
Thomasville City of.....	Publicly Owned	4	*	0	0	5
Tri-County Elec Member Corp.....	Cooperative	4	0	0	0	4
Tri-County Elec Member Corp.....	Cooperative	2	0	*	0	3
Troup Electric Members Corp.....	Cooperative	8	0	0	0	8
Vero Beach City of.....	Publicly Owned	7	1	0	0	9
Virginia Electric & Power Co.....	Investor-Owned	249	58	45	78	431
Wake Electric Membership Corp.....	Cooperative	10	0	9	0	19
Walton Electric Member Corp.....	Cooperative	20	0	0	0	20
Washington City of.....	Publicly Owned	1	0	0	0	1
Washington Elec Member Corp.....	Cooperative	1	0	4	0	4
Wilson City of.....	Publicly Owned	11	3	19	8	41
Withlacoochee River Elec Coop.....	Cooperative	30	0	0	0	30
York Electric Coop Inc.....	Cooperative	1	24	9	0	34
<b>SERC Total.....</b>		<b>3,998</b>	<b>1,103</b>	<b>3,211</b>	<b>250</b>	<b>8,562</b>

See footnotes at end of table.

**Table 20. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>SPP</b>						
Arkansas Power & Light Co.....	Investor-Owned	77	23	89	0	189
Bailey County Elec Coop Assn.....	Cooperative	0	0	7	0	7
C & L Electric Coop Corp.....	Cooperative	0	0	3	0	3
Caddo Electric Coop Inc.....	Cooperative	0	0	5	0	5
Carroll Electric Coop Corp.....	Cooperative	8	*	0	0	9
Central Rural Electric Coop.....	Cooperative	3	*	2	0	5
Cookson Hills Elec Coop Inc.....	Cooperative	6	*	0	0	6
Craighead Electric Coop Corp.....	Cooperative	0	1	7	0	7
Dixie Electric Membership Corp.....	Cooperative	14	0	0	0	14
Duncan City of.....	Publicly Owned	*	*	0	0	1
Empire District Electric Co.....	Investor-Owned	0	*	0	0	*
Farmers ' Electric Coop Inc.....	Cooperative	0	2	0	2	3
First Electric Coop Corp.....	Cooperative	8	0	9	0	17
Gulf States Utilities Co.....	Investor-Owned	7	1	0	0	8
Independence City of.....	Publicly Owned	2	0	0	0	2
Indian Electric Coop Inc.....	Cooperative	2	1	1	0	3
Kansas City City of.....	Publicly Owned	0	31	0	0	31
Kansas City Power & Light Co.....	Investor-Owned	6	19	0	0	25
Kansas Electric Power Coop Inc.....	Cooperative	0	0	11	0	11
Kansas Gas & Electric Co.....	Investor-Owned	0	0	8	0	8
Mississippi Cnty Elec Coop Inc.....	Cooperative	0	1	0	0	1
New Orleans Public Service Inc.....	Investor-Owned	3	0	0	0	3
North Arkansas Elec Coop Inc.....	Cooperative	5	0	0	0	5
Northeast Louisiana Power Coop.....	Cooperative	0	6	0	0	6
Oklahoma Gas & Electric Co.....	Investor-Owned	191	26	27	0	243
Oklahoma Municipal Power Auth.....	Publicly Owned	*	0	0	0	*
Osceola City of.....	Publicly Owned	0	0	3	0	3
Ozark Electric Coop Inc.....	Cooperative	0	2	0	0	2
Petit Jean Electric Coop Corp.....	Cooperative	2	*	0	0	3
Public Service Co of Oklahoma.....	Investor-Owned	51	2	0	0	53
Red River Valley Rrl Elec Assn.....	Cooperative	*	1	3	0	5
South Central Ark El Coop Inc.....	Cooperative	0	0	5	0	5
South Plains Electric Coop Inc.....	Cooperative	1	0	5	0	6
Southwestern Electric Power Co.....	Investor-Owned	10	0	60	0	70
Southwestern Public Service Co.....	Investor-Owned	24	1	1	0	25
Stillwater Utilities Authority.....	Publicly Owned	0	0	1	0	1
Verdigris Valley Elec Coop Inc.....	Cooperative	10	0	1	0	11
Western Resources Inc.....	Investor-Owned	26	0	2	0	28
White River Valley El Coop Inc.....	Cooperative	0	0	9	0	9
Woodruff Electric Coop Corp.....	Cooperative	1	0	2	19	22
<b>SPP Total.....</b>		<b>458</b>	<b>116</b>	<b>260</b>	<b>21</b>	<b>855</b>
<b>WSCC(U.S.)</b>						
Alameda City of.....	Publicly Owned	*	1	0	1	1
Anaheim City of.....	Publicly Owned	10	5	8	0	23
Arizona Electric Pwr Coop Inc.....	Cooperative	*	*	0	0	1
Arizona Public Service Co.....	Investor-Owned	362	114	0	0	476
Bonneville Power Admin.....	Federal	0	0	94	0	94
Boulder City City of.....	Publicly Owned	3	*	0	*	3
Bountiful City City of.....	Publicly Owned	*	0	7	0	7
Dixie Escalante R E A Inc.....	Cooperative	0	0	4	0	4
El Paso Electric Co.....	Investor-Owned	0	12	34	0	46
Eugene City of.....	Publicly Owned	32	3	2	0	37
Fort Collins City of.....	Publicly Owned	2	0	3	0	5
Idaho Power Co.....	Investor-Owned	8	3	3	6	20
Imperial Irrigation District.....	Publicly Owned	3	1	*	0	4
Longmont City of.....	Publicly Owned	1	3	1	*	5
Los Angeles City of.....	Publicly Owned	28	39	8	0	75
Loveland City of.....	Publicly Owned	1	0	0	1	1
Modesto Irrigation District.....	Publicly Owned	4	4	0	0	8
Mohave Electric Coop Inc.....	Cooperative	*	*	0	0	*
Montana Power Co.....	Investor-Owned	10	8	1	5	24
Mountain Parks Electric Inc.....	Cooperative	0	0	19	0	19
Navopache Electric Coop Inc.....	Cooperative	4	1	1	1	7
Nevada Power Co.....	Investor-Owned	62	50	1	0	113
Overton Power District No 5.....	Publicly Owned	*	1	0	0	1
Pacific Gas & Electric Co.....	Investor-Owned	96	203	547	52	898
Palo Alto City of.....	Publicly Owned	0	6	0	0	6

See footnotes at end of table.

**Table 20. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by Class of Ownership and Sector, 1994**  
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
<b>WSCC(U.S.) (Continued)</b>						
Pasadena City of.....	Publicly Owned	*	2	0	0	2
Public Service Co of Colorado .....	Investor-Owned	1	22	140	15	179
PUD No 2 of Grant County.....	Publicly Owned	1	0	18	0	19
Redding City of.....	Publicly Owned	0	4	2	1	7
Riverside City of.....	Publicly Owned	6	*	*	0	6
Roseville City of.....	Publicly Owned	2	*	*	0	3
Sacramento Municipal Util Dist.....	Publicly Owned	198	165	0	1	364
Salt River Proj Ag 1 & P Dist.....	Publicly Owned	86	47	58	0	192
San Diego Gas & Electric Co.....	Investor-Owned	11	58	0	0	69
Santa Clara City of.....	Publicly Owned	*	*	6	0	6
Seattle City of.....	Publicly Owned	20	21	2	3	46
Sierra Pacific Power Co.....	Investor-Owned	4	15	19	0	38
Southern California Edison Co.....	Investor-Owned	399	705	464	49	1,616
Springfield City of.....	Publicly Owned	1	*	*	0	2
Sulphur Springs Valley E C Inc.....	Cooperative	1	*	2	0	3
Trico Electric Coop Inc.....	Cooperative	0	0	1	0	1
Tucson Electric Power Co.....	Investor-Owned	7	13	7	0	27
Turlock Irrigation District.....	Publicly Owned	9	*	1	0	10
United Power Inc.....	Cooperative	2	9	0	0	11
Vera Irrigation District # 15.....	Publicly Owned	7	0	0	0	7
Vernon City of.....	Publicly Owned	0	0	8	0	8
Washington Water Power Co.....	Investor-Owned	71	9	4	0	84
Yellowstone Vly Elec Coop Inc.....	Cooperative	5	0	0	0	5
<b>WSCC(U.S.) Total.....</b>		<b>1,459</b>	<b>1,525</b>	<b>1,467</b>	<b>133</b>	<b>4,584</b>
<b>Contiguous U.S.....</b>		<b>9,631</b>	<b>6,915</b>	<b>7,977</b>	<b>460</b>	<b>24,983</b>
<b>ASCC</b>						
Alaska Electric Light&Power Co.....	Investor-Owned	4	3	0	0	7
Golden Valley Elec Assn Inc.....	Cooperative	1	*	*	0	1
<b>ASCC Total.....</b>		<b>5</b>	<b>3</b>	<b>*</b>	<b>0</b>	<b>8</b>
<b>Hawaii</b>						
Hawaii Electric Light Co Inc.....	Investor-Owned	1	*	0	0	1
Hawaiian Electric Co Inc.....	Investor-Owned	1	3	0	0	4
Maui Electric Co Ltd.....	Investor-Owned	*	5	0	0	5
<b>Hawaii Total.....</b>		<b>2</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>10</b>
<b>U.S. Total.....</b>		<b>9,638</b>	<b>6,927</b>	<b>7,977</b>	<b>460</b>	<b>25,001</b>

\* Value less than 0.5.

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours. •Totals may not equal sum of components because of independent rounding.

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

# Cost

Utility costs<sup>10</sup> for DSM programs are reported by electric utilities using two categories: direct utility costs and indirect utility costs. Direct utility costs are those directly attributable to a specific DSM program category. Indirect utility costs are those incurred by utilities that are not directly attributable to a specific DSM program category. Total utility cost is the summation of direct utility costs and indirect utility costs.

In 1994, total utility cost for large utilities with DSM programs was \$2.7 billion, approximately the same as in 1993.<sup>11</sup> Since 1990, total utility costs have increased \$1.5 billion, at an average annual rate of 23.3 percent. For 1995, total utility cost is predicted to decrease 4.5 percent to \$2.6 billion and by 1999 to \$2.5 billion (Table 21).

The declining DSM costs can be attributed partly to anticipated competition in the electric power industry. In a competitive industry, only those consumers who use DSM programs will incur the costs, rather than electric utilities financing these programs.

The majority of utilities with DSM program costs spent between 0.1 and 1 percent of electric revenues from sales to ultimate consumers on DSM programs. Among large utilities, 11.6 percent spent less than 0.1 percent of revenues on DSM, 50.0 percent spent between 0.1 and 1 percent of revenues on DSM, and 38.4 percent spent more than 1 percent of revenues on DSM. There were 54 cooperatives, 69 investor-owned utilities, and 45 publicly owned utilities that spent more than 1 percent of revenues on DSM. Of the utilities spending between 0.1 and 1 percent, 84 were publicly owned, 86 were cooperatives, and 49 were investor-owned utilities (Figure 8).

In 1994, the 100 utilities that spent the most on DSM activities accounted for 93.9 percent of total DSM costs; the 50 utilities that spent the most on DSM accounted for 82.2 percent of the total costs; and the top 25 utilities accounted for 66.7 percent (Figure 9).

These 100, 50, and 25 utilities that had the greatest costs for DSM programs represented 62.3, 45.6, and 29.7 percent, respectively, of total retail sales of electricity in the United States.

In 1994, investor-owned utilities spent the most on DSM, \$2.2 billion, followed by Federally owned utilities,<sup>12</sup> \$246 million; publicly owned utilities, \$183 million; and cooperatives, \$95 million. Publicly owned utilities predicted an 18.4-percent increase for 1995. For 1999, cooperatives predicted the greatest increase, 5.8 percent annually to \$129 million (Table 22).

**Direct Utility Costs** are those identified specifically with one of the DSM program categories (i.e., energy efficiency, direct load control, interruptible load control, other load management, other DSM programs, or load building). In 1994, direct utility costs for large utilities was \$2.3 billion. Of direct utility costs, 70.6 percent were for energy efficiency programs, amounting to \$1.6 billion (Table 23). Direct utility costs reported by utilities do not include lost revenue as a result of offering customers interruptible rates.

Among the NERC regions, WSCC had the greatest share of direct utility costs, \$662 million, mainly because within the WSCC there were three utilities with direct utility costs over \$100 million. The second largest region was SERC with direct utility costs of \$558 million.

**Indirect Utility Costs** are utility costs that may not be meaningfully identified with any particular DSM program category. Indirect costs could be attributable to one of several accounting cost categories (i.e., administrative, marketing, monitoring and evaluation, utility-earned incentives,<sup>13</sup> or other).<sup>14</sup> Indirect utility costs for 1994 were \$462 million, with the greatest portion of these costs for administrative costs and other. Among the NERC regions, WSCC had the highest share of indirect utility costs, \$130 million, followed by SERC with \$126 million (Table 24).

<sup>10</sup> Utilities are required to report nonutility costs (nonutility costs are those incurred by the consumer, such as installation of an energy efficient appliance, or by the retailer or manufacturer of energy efficient products), but they are not included in this report because in many cases utilities cannot accurately estimate these costs.

<sup>11</sup> Small utilities are not included in this section as they report only total utility cost and not a breakdown into direct and indirect costs.

<sup>12</sup> The large amount of spending reported by Federally owned utilities may be misleading. Both the Tennessee Valley Authority and Bonneville Power Administration encourage utilities to use DSM, and finance their programs.

<sup>13</sup> Utility-earned incentives are not included in this publication.

<sup>14</sup> Other costs include the indirect cost of DSM that cannot be attributed to any other cost category, particularly research and development.

**Table 21. U.S. Electric Utility DSM Program Costs by Class of Ownership, 1990 Through 1994, 1995, and 1999**  
(Thousand Dollars)

Class of Ownership	Historical Costs					Projected Costs	
	1990	1991	1992	1993	1994	1995	1999
Investor-Owned .....	1,065,127	1,509,412	1,918,803	2,251,227	2,190,646	2,022,974	2,089,367
Publicly Owned .....	74,475	179,767	163,075	166,774	183,274	217,087	201,536
Cooperative.....	32,055	52,954	81,553	87,818	95,244	102,634	128,655
Federal .....	5,800	61,640	184,663	237,714	246,493	249,503	72,600
<b>U.S. Total.....</b>	<b>1,177,457</b>	<b>1,803,773</b>	<b>2,348,094</b>	<b>2,743,533</b>	<b>2,715,657</b>	<b>2,592,198</b>	<b>2,492,158</b>

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.

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

**Table 22. U.S. Electric Utility DSM Program Costs by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Thousand Dollars)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1993	1994	1995	1999
<b>ECAR</b>					
American Mun Power-Ohio Inc .....	Publicly Owned	100	48	24	39
Appalachian Power Co.....	Investor-Owned	1,473	1,016	3,171	3,292
Buckeye Power Inc .....	Cooperative	2,015	1,831	2,175	2,518
Cincinnati Gas & Electric Co.....	Investor-Owned	4,188	6,211	4,110	5,288
Cleveland Electric Illum Co.....	Investor-Owned	3,416	3,319	3,300	0
Columbus Southern Power Co .....	Investor-Owned	3,069	2,592	2,614	2,839
Consumers Power Co.....	Investor-Owned	52,566	6,356	11,289	0
Crawfordsville Elec Lgt&Pwr Co .....	Publicly Owned	9	7	8	5
Dayton Power & Light Co.....	Investor-Owned	25,353	—	—	—
Detroit Edison Co.....	Investor-Owned	4,096	7,600	6,670	3,212
East Kentucky Power Coop Inc.....	Cooperative	1,900	2,000	2,000	0
Hamilton City of .....	Publicly Owned	115	15	25	35
Hendricks County Rural E M C.....	Cooperative	60	—	—	—
Indiana Michigan Power Co.....	Investor-Owned	899	1,361	1,087	789
Indiana Municipal Power Agency.....	Publicly Owned	—	5	787	364
Indianapolis Power & Light Co.....	Investor-Owned	2,557	3,757	7,703	1,641
Kentucky Power Co.....	Investor-Owned	16	112	888	1,979
Kentucky Utilities Co.....	Investor-Owned	2,370	4,601	5,496	11,088
Kingsport Power Co.....	Investor-Owned	210	0	0	0
Lansing City of.....	Publicly Owned	26	80	130	195
Louisville Gas & Electric Co.....	Investor-Owned	4,343	340	3,874	6,342
Midwest Electric Inc.....	Cooperative	161	80	85	100
Monongahela Power Co.....	Investor-Owned	457	483	495	552
Ohio Edison Co.....	Investor-Owned	14,851	13,170	6,315	7,051
Ohio Power Co.....	Investor-Owned	2,696	3,042	3,042	3,042
Owen Electric Coop Inc.....	Cooperative	96	114	121	137
Pennsylvania Power Co.....	Investor-Owned	2,909	3,055	490	659
Potomac Edison Co.....	Investor-Owned	1,520	11,379	7,189	95
PSI Energy Inc.....	Investor-Owned	35,399	39,712	38,366	47,686
South Central Power Co .....	Cooperative	700	788	850	980
Southern Indiana Gas & Elec Co.....	Investor-Owned	5,869	9,737	11,090	13,253
Toledo Edison Co.....	Investor-Owned	1,556	2,099	2,050	0
Utilities Dist-Western IN REMC.....	Cooperative	262	—	—	—
Virginia Tech Electric Service.....	Publicly Owned	10	—	—	—
Wabash Valley Power Assn Inc.....	Cooperative	8,695	8,660	8,810	9,250
West Penn Power Co.....	Investor-Owned	2,187	2,142	2,572	5,944
Wheeling Power Co.....	Investor-Owned	103	0	0	0
Wolverine Pwr Supply Coop Inc.....	Cooperative	885	1,406	1,275	1,575
<b>ECAR Total.....</b>		<b>187,137</b>	<b>137,118</b>	<b>138,101</b>	<b>129,950</b>
<b>ERCOT</b>					
Austin City of.....	Publicly Owned	9,839	11,700	15,413	19,148
Brazos Electric Power Coop Inc .....	Cooperative	779	584	1,246	1,478
Bryan City of.....	Publicly Owned	366	677	549	969
Central Power & Light Co.....	Investor-Owned	6,596	4,624	5,144	4,522
College Station City of .....	Publicly Owned	—	89	89	89
Denton City of.....	Publicly Owned	268	169	0	0
Garland City of.....	Publicly Owned	626	614	602	557
Georgetown City of.....	Publicly Owned	36	—	—	—
Greenville Electric Util Sys.....	Publicly Owned	19	35	56	192
Guadalupe Valley Elec Coop Inc.....	Cooperative	158	385	412	449
Houston Lighting & Power Co.....	Investor-Owned	17,922	20,238	21,624	0
Johnson County Elec Coop Assn .....	Cooperative	119	138	138	138
Lower Colorado River Authority.....	Publicly Owned	3,311	4,500	6,265	6,267
Magic Valley Electric Coop Inc.....	Cooperative	88	136	145	145
Medina Electric Coop Inc.....	Cooperative	86	53	54	47
San Antonio Public Service Bd.....	Publicly Owned	—	0	1,750	2,010
San Bernard Electric Coop Inc.....	Cooperative	59	67	65	67
San Marcos City of.....	Publicly Owned	77	82	86	92
Texas Utilities Electric Co.....	Investor-Owned	20,102	21,691	17,048	26,180
Texas-New Mexico Power Co.....	Investor-Owned	1,040	1,252	1,315	2,037
Tri-County Electric Coop Inc.....	Cooperative	52	110	116	141
West Texas Utilities Co.....	Investor-Owned	990	2,394	2,593	2,593
<b>ERCOT Total.....</b>		<b>62,533</b>	<b>69,538</b>	<b>74,710</b>	<b>67,121</b>
<b>MAAC</b>					
A & N Electric Coop.....	Cooperative	145	148	151	163
Adams Electric Coop Inc.....	Cooperative	519	462	485	589
Allegheny Electric Coop Inc .....	Cooperative	—	445	468	568

See footnotes at end of table.

**Table 22. U.S. Electric Utility DSM Program Costs by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1993	1994	1995	1999
<b>MAAC (Continued)</b>					
Atlantic City Electric Co.....	Investor-Owned	10,397	10,397	7,546	6,703
Baltimore Gas & Electric Co.....	Investor-Owned	65,683	56,047	58,175	56,229
Bedford Rural Elec Coop Inc.....	Cooperative	106	126	128	139
Central Electric Coop Inc.....	Cooperative	132	165	281	209
Choptank Electric Coop Inc.....	Cooperative	229	240	278	390
Claverack Rural Elec Coop Inc.....	Cooperative	101	117	121	126
Conowingo Power Co.....	Investor-Owned	429	623	37	0
Delaware Electric Coop Inc.....	Cooperative	662	838	855	925
Delmarva Power & Light Co.....	Investor-Owned	8,902	9,422	10,947	17,216
Easton Utilities Comm.....	Publicly Owned	49	93	174	288
Jersey Central Power&Light Co.....	Investor-Owned	13,685	29,325	29,325	14,550
Metropolitan Edison Co.....	Investor-Owned	4,461	4,155	4,410	4,410
Northwestern Rural E C A Inc.....	Cooperative	334	321	325	342
Pennsylvania Electric Co.....	Investor-Owned	3,376	4,270	4,496	5,593
Pennsylvania Power & Light Co.....	Investor-Owned	13,050	13,301	12,531	11,200
Potomac Electric Power Co.....	Investor-Owned	73,516	113,949	86,767	73,752
Public Service Electric&Gas Co.....	Investor-Owned	50,200	42,775	60,674	99,150
PECO Energy Co.....	Investor-Owned	10,606	9,582	9,379	19,997
Somerset Rural Elec Coop Inc.....	Cooperative	123	151	160	170
Southern Maryland El Coop Inc.....	Cooperative	5,173	7,910	7,475	12,324
Southwest Central R E C Corp.....	Cooperative	30	44	141	80
Tri-County Rural Elec Coop Inc.....	Cooperative	—	28	58	265
United Electric Coop Inc.....	Cooperative	—	23	25	25
UGI Utilities Inc.....	Investor-Owned	97	122	110	110
Valley Rural Electric Coop Inc.....	Cooperative	106	111	118	134
<b>MAAC Total.....</b>		<b>262,111</b>	<b>305,190</b>	<b>295,640</b>	<b>325,647</b>
<b>MAIN</b>					
Boone Electric Coop.....	Cooperative	72	78	87	97
Central Illinois Light Co.....	Investor-Owned	1,885	2,057	3,597	5,842
Central Illinois Pub Serv Co.....	Investor-Owned	691	566	566	566
Coles-Moultrie Electric Coop.....	Cooperative	150	150	130	115
Columbia City of.....	Publicly Owned	589	598	665	670
Commonwealth Edison Co.....	Investor-Owned	3,025	2,305	5,360	13,500
Corn Belt Electric Coop Inc.....	Cooperative	283	210	212	256
Cuivre River Electric Coop Inc.....	Cooperative	147	186	45	55
Eastern Illini Electric Coop.....	Cooperative	102	102	105	107
Illinois Power Co.....	Investor-Owned	595	62	15	10
Madison Gas & Electric Co.....	Investor-Owned	6,670	7,332	7,306	7,472
Manitowoc Public Utilities.....	Publicly Owned	279	324	385	400
Marshfield City of.....	Publicly Owned	122	86	136	136
Menard Electric Coop.....	Cooperative	79	80	80	86
Plymouth City of.....	Publicly Owned	15	—	—	—
Shelby Electric Coop Inc.....	Cooperative	15	24	37	66
Southeastern IL Elec Coop Inc.....	Cooperative	6	4	5	6
Southwestern Electric Coop Inc.....	Cooperative	160	175	180	200
Springfield City of.....	Publicly Owned	396	417	494	704
Tri-County Electric Coop Inc.....	Cooperative	115	115	115	115
Union Electric Co.....	Investor-Owned	12,023	12,071	12,071	32,770
Wayne-White Counties Elec Coop.....	Cooperative	23	23	29	31
Wisconsin Electric Power Co.....	Investor-Owned	57,750	41,064	46,356	46,356
Wisconsin Power & Light Co.....	Investor-Owned	15,736	11,966	13,939	13,939
Wisconsin Public Power Inc Sys.....	Publicly Owned	1,579	1,014	811	608
Wisconsin Public Service Corp.....	Investor-Owned	26,100	15,244	14,300	14,800
<b>MAIN Total.....</b>		<b>128,607</b>	<b>96,253</b>	<b>107,026</b>	<b>138,907</b>
<b>MAPP(U.S.)</b>					
Ames City of.....	Publicly Owned	184	263	265	77
Anoka City of.....	Publicly Owned	76	10	10	11
Austin City of.....	Publicly Owned	182	183	187	223
Barron Electric Coop.....	Cooperative	51	39	40	46
Beatrice City of.....	Publicly Owned	127	78	79	104
Cass County Electric Coop Inc.....	Cooperative	125	127	130	143
Cedar Falls City of.....	Publicly Owned	332	225	224	224
Central Iowa Power Coop.....	Cooperative	2,598	2,328	2,560	3,493
Central Power Elec Coop Inc.....	Cooperative	84	92	120	130
Clark Electric Coop.....	Cooperative	22	29	33	47
Coop Power Assn.....	Cooperative	6,134	7,174	8,505	9,891

See footnotes at end of table.



**Table 22. U.S. Electric Utility DSM Program Costs by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1993	1994	1995	1999
<b>MAPP(U.S.) (Continued)</b>					
Cornhusker Public Power Dist.....	Publicly Owned	24	28	55	60
Dawson County Public Pwr Dist.....	Publicly Owned	35	38	46	52
East Grand Forks City of.....	Publicly Owned	—	49	72	75
East River Elec Power Coop Inc.....	Cooperative	2,479	2,797	2,234	2,098
Fairmont Public Utilities Comm.....	Publicly Owned	268	132	94	110
Freeborn-Mower Electric Coop.....	Cooperative	59	—	—	—
Grant-Lafayette Electric Coop.....	Cooperative	107	113	122	160
Interstate Power Co.....	Investor-Owned	4,892	8,349	5,872	10,546
Iowa Lakes Electric Coop.....	Cooperative	622	573	587	656
Iowa-Illinois Gas&Electric Co.....	Investor-Owned	1,502	6,823	8,749	9,700
IES Utilities Inc.....	Investor-Owned	5,436	10,664	9,923	11,627
L & O Power Coop.....	Cooperative	20	20	20	20
Lexington City of.....	Publicly Owned	—	130	5	8
Lincoln Electric System.....	Publicly Owned	77	113	140	222
Loup River Public Power Dist.....	Publicly Owned	—	65	10	750
Marshall City of.....	Publicly Owned	216	138	103	112
Midland Power Coop.....	Cooperative	107	115	119	127
Midwest Power Systems Inc.....	Investor-Owned	16,792	19,845	19,487	19,364
Minnesota Power & Light Co.....	Investor-Owned	3,437	7,956	5,309	4,664
Minnesota Valley Electric Coop.....	Cooperative	—	553	594	741
Minnkota Power Coop Inc.....	Cooperative	2,123	2,178	2,258	2,340
Moorhead City of.....	Publicly Owned	132	120	297	286
Mountrail-Williams El Coop Inc.....	Cooperative	73	77	80	95
Municipal Energy Agency of NE.....	Publicly Owned	31	26	28	45
Muscatine City of.....	Publicly Owned	247	217	215	220
MDU Resources Group Inc.....	Investor-Owned	900	707	525	641
Nebraska Public Power District.....	Publicly Owned	1,108	2,284	2,497	3,067
Nodak Electric Coop Inc.....	Cooperative	66	71	69	75
Norris Public Power District.....	Publicly Owned	58	90	300	100
North Platte City of.....	Publicly Owned	86	83	104	99
Northern States Power Co of MN.....	Investor-Owned	34,291	43,041	50,012	32,310
Northern States Power Co of WI.....	Investor-Owned	6,305	6,741	5,832	4,957
Northwest Iowa Power Coop.....	Cooperative	386	537	550	562
Northwestern Public Service Co.....	Investor-Owned	6	6	2	2
Northwestern Wisconsin Elec Co.....	Investor-Owned	—	71	74	77
Oakdale Electric Coop.....	Cooperative	176	160	163	181
Oliver-Mercer Elec Coop Inc.....	Cooperative	15	6	6	6
Omaha Public Power District.....	Publicly Owned	459	707	0	0
Otter Tail Power Co.....	Investor-Owned	3,664	5,614	5,543	6,386
Owatonna City of.....	Publicly Owned	62	127	134	77
Pella City of.....	Publicly Owned	215	—	—	—
People 's Coop Power Assn.....	Cooperative	26	115	87	94
Pierre City of.....	Publicly Owned	18	18	18	21
Polk-Burnett Electric Coop.....	Cooperative	336	360	320	350
Rice Lake Utilities.....	Publicly Owned	—	82	98	98
Rochester Public Utilities.....	Publicly Owned	442	604	710	739
Roseau Electric Coop Inc.....	Cooperative	65	58	62	70
Runestone Electric Assn.....	Cooperative	111	—	—	—
Shakopee Public Utilities Comm.....	Publicly Owned	30	34	42	72
Spencer City of.....	Publicly Owned	—	29	85	110
Superior Water Light&Power Co.....	Investor-Owned	261	292	331	331
Tri-County Electric Coop.....	Cooperative	189	203	195	204
United Power Assn.....	Cooperative	4,679	4,169	4,142	3,786
Verendrye Electric Coop Inc.....	Cooperative	85	95	95	106
Vernon Electric Coop.....	Cooperative	128	120	122	135
Wild Rice Electric Coop Inc.....	Cooperative	134	165	172	202
<b>MAPP(U.S.) Total.....</b>		<b>102,895</b>	<b>138,256</b>	<b>140,862</b>	<b>133,325</b>
<b>NPCC(U.S.)</b>					
Arcade Village of.....	Publicly Owned	—	3	25	30
Bangor Hydro-Electric Co.....	Investor-Owned	1,989	845	1,015	1,015
Blackstone Valley Electric Co.....	Investor-Owned	3,100	673	848	848
Boston Edison Co.....	Investor-Owned	55,823	60,722	42,193	42,193
Braintree Town of.....	Publicly Owned	129	127	163	155
Burlington City of.....	Publicly Owned	954	611	689	689
Cambridge Electric Light Co.....	Investor-Owned	2,686	1,218	1,276	1,276
Central Hudson Gas & Elec Corp.....	Investor-Owned	5,011	3,331	4,689	4,176
Central Maine Power Co.....	Investor-Owned	15,350	11,034	11,000	11,000

See footnotes at end of table.

**Table 22. U.S. Electric Utility DSM Program Costs by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1993	1994	1995	1999
<b>NPCC(U.S.) (Continued)</b>					
Central Vermont Pub Serv Corp .....	Investor-Owned	9,841	6,900	6,900	6,900
Chicopee City of .....	Publicly Owned	175	565	460	900
Citizens Utilities Co .....	Investor-Owned	0	1,902	2,368	2,244
Commonwealth Electric Co .....	Investor-Owned	4,475	4,956	3,673	3,673
Concord Electric Co .....	Investor-Owned	506	541	588	890
Connecticut Light & Power Co .....	Investor-Owned	41,190	34,768	36,662	37,497
Connecticut Valley Elec Co Inc .....	Investor-Owned	505	328	296	296
Consolidated Edison Co-NY Inc .....	Investor-Owned	125,073	99,358	72,522	72,322
Eastern Edison Co .....	Investor-Owned	7,541	1,437	1,856	1,487
Exeter & Hampton Electric Co .....	Investor-Owned	497	662	850	933
Fitchburg Gas & Elec Light Co .....	Investor-Owned	660	773	1,106	1,200
Granite State Electric Co .....	Investor-Owned	2,245	1,740	2,555	2,530
Green Mountain Power Corp .....	Investor-Owned	8,378	5,255	3,568	3,568
Hingham City of .....	Publicly Owned	28	108	231	135
Holyoke City of .....	Publicly Owned	33	33	33	33
Jamestown City of .....	Publicly Owned	120	120	175	250
Littleton Town of .....	Publicly Owned	63	9	15	17
Long Island Lighting Co .....	Investor-Owned	33,441	19,827	12,255	41,265
Maine Public Service Co .....	Investor-Owned	219	154	193	212
Massachusetts Electric Co .....	Investor-Owned	49,660	60,747	63,648	62,648
Massena Town of .....	Publicly Owned	15	15	108	28
Montaup Electric Co .....	Investor-Owned	12,157	14,258	12,481	11,086
Narragansett Electric Co .....	Investor-Owned	12,869	10,432	13,428	13,078
New England Power Co .....	Investor-Owned	2,927	8,171	8,496	8,496
New Hampshire Elec Coop Inc .....	Cooperative	1,100	668	1,735	2,090
New York State Elec & Gas Corp .....	Investor-Owned	47,690	14,369	12,890	12,890
Newport Electric Corp .....	Investor-Owned	1,612	—	—	—
Niagara Mohawk Power Corp .....	Investor-Owned	42,105	41,429	25,222	15,222
North Attleborough Town of .....	Publicly Owned	—	143	489	590
Norwood City of .....	Publicly Owned	234	301	301	425
Omya Inc .....	Investor-Owned	121	1	13	6
Orange & Rockland Utils Inc .....	Investor-Owned	22,077	13,432	10,311	6,169
Power Authority of State of NY .....	Publicly Owned	10,315	6,825	10,400	3,887
Public Service Co of NH .....	Investor-Owned	434	1,159	2,730	6,616
Reading Town of .....	Publicly Owned	155	155	163	198
Rochester Gas & Electric Corp .....	Investor-Owned	10,087	8,498	8,708	7,995
Shrewsbury Town of .....	Publicly Owned	275	178	540	540
Taunton City of .....	Publicly Owned	378	593	472	230
United Illuminating Co .....	Investor-Owned	13,964	12,188	11,750	9,000
Vermont Electric Coop Inc .....	Cooperative	—	0	225	700
Wellesley Town of .....	Publicly Owned	18	18	60	150
Western Massachusetts Elec Co .....	Investor-Owned	16,920	11,088	16,187	9,272
<b>NPCC(U.S.) Total</b> .....		<b>565,145</b>	<b>462,668</b>	<b>408,361</b>	<b>409,050</b>
<b>SERC</b>					
Aiken Electric Coop Inc .....	Cooperative	725	372	276	343
Alabama Electric Coop Inc .....	Cooperative	892	1,016	1,082	1,082
Alabama Municipal Elec Auth .....	Publicly Owned	—	329	460	55
Alabama Power Co .....	Investor-Owned	22,950	31,315	36,631	42,406
Albemarle City of .....	Publicly Owned	177	93	100	178
Altamaha Electric Member Corp .....	Cooperative	9	10	13	18
Amicalola Electric Member Corp .....	Cooperative	50	66	80	117
Berkeley Electric Coop Inc .....	Cooperative	675	675	705	815
Black River Electric Coop Inc .....	Cooperative	443	219	225	335
Blue Ridge Elec Member Corp .....	Cooperative	757	—	—	—
Brunswick Electric Member Corp .....	Cooperative	714	742	780	900
BARC Electric Coop Inc .....	Cooperative	98	98	98	89
Canoochee Electric Member Corp .....	Cooperative	24	24	24	25
Carolina Power & Light Co .....	Investor-Owned	42,400	53,300	57,000	57,000
Carroll Electric Member Corp .....	Cooperative	85	98	100	112
Carteret-Craven El Member Corp .....	Cooperative	303	—	—	—
Central Electric Member Corp .....	Cooperative	79	—	—	—
Central Electric Pwr Coop Inc .....	Cooperative	2,184	—	—	—
Central Florida Elec Coop Inc .....	Cooperative	16	18	19	22
Central Georgia El Member Corp .....	Cooperative	119	130	146	198
Choctawhatche Elec Coop Inc .....	Cooperative	—	262	278	278
Clay Electric Coop Inc .....	Cooperative	2,730	2,865	3,102	3,754
Coast Electric Power Assn .....	Cooperative	55	—	—	—

See footnotes at end of table.

**Table 22. U.S. Electric Utility DSM Program Costs by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1993	1994	1995	1999
<b>SERC (Continued)</b>					
Coastal Electric Member Corp .....	Cooperative	133	135	162	197
Cobb Electric Membership Corp.....	Cooperative	2,150	1,973	2,072	2,368
Colquitt Electric Members Corp.....	Cooperative	604	889	896	927
Community Electric Coop .....	Cooperative	137	154	157	170
Coweta-Fayette El Member Corp.....	Cooperative	794	723	734	805
Crescent Electric Member Corp.....	Cooperative	785	826	866	1,003
Crisp County Power Comm.....	Publicly Owned	—	2	2	4
Davidson Electric Member Corp.....	Cooperative	63	81	87	128
Douglas City of.....	Publicly Owned	11	10	14	14
Duke Power Co.....	Investor-Owned	86,241	87,013	75,652	94,130
Easley Combined Utility System.....	Publicly Owned	—	2	3	3
East Point City of.....	Publicly Owned	0	13	13	13
Elizabeth City City of.....	Publicly Owned	288	0	0	0
Excelsior Electric Member Corp .....	Cooperative	45	40	18	24
Fairfield Electric Coop Inc .....	Cooperative	168	289	350	404
Fayetteville Public Works Comm.....	Publicly Owned	25	25	80	105
Fitzgerald Wtr Lgt & Bond Comm.....	Publicly Owned	7	20	20	25
Flint Electric Membership Corp.....	Cooperative	1,729	1,844	1,901	2,131
Florida Keys El Coop Assn Inc.....	Cooperative	189	206	215	246
Florida Power & Light Co.....	Investor-Owned	139,381	160,603	172,347	192,799
Florida Power Corp.....	Investor-Owned	102,930	102,463	93,418	75,300
Fort Pierce Utilities Auth.....	Publicly Owned	163	175	175	175
Four County Elec Member Corp.....	Cooperative	1,083	—	—	—
Gaffney City of.....	Publicly Owned	1,802	0	0	0
Gainesville Regional Utilities.....	Publicly Owned	510	689	681	753
Georgia Power Co.....	Investor-Owned	52,294	54,725	38,460	32,850
Grady County Elec Member Corp.....	Cooperative	27	43	43	47
Greenville Utilities Comm.....	Publicly Owned	400	595	720	501
GreyStone Power Corp .....	Cooperative	353	555	1,189	1,323
Griffin City of.....	Publicly Owned	25	—	—	—
Gulf Power Co .....	Investor-Owned	1,958	2,093	2,126	2,614
Harrisonburg City of.....	Publicly Owned	47	54	27	27
Hart Electric Member Corp.....	Cooperative	238	195	205	230
Haywood Electric Member Corp.....	Cooperative	43	78	77	102
High Point Town of.....	Publicly Owned	211	219	225	250
Jackson Electric Member Corp.....	Cooperative	454	477	489	533
Jacksonville Electric Auth .....	Publicly Owned	995	896	944	1,147
Jefferson Electric Member Corp.....	Cooperative	47	49	56	66
Jones-Onslow Elec Member Corp.....	Cooperative	210	224	275	370
Kinston City of.....	Publicly Owned	98	50	4,460	1,695
Kissimmee Utility Authority.....	Publicly Owned	1,075	824	971	1,541
Lakeland City of.....	Publicly Owned	1,065	614	863	990
Lamar Electric Membership Corp.....	Cooperative	3	3	3	3
Laurens Electric Coop Inc .....	Cooperative	32	35	39	42
Laurinburg City of .....	Publicly Owned	54	18	32	20
Lawrenceville City of.....	Publicly Owned	6	3	2	2
Lee County Electric Coop Inc.....	Cooperative	1,807	1,809	1,749	1,865
Leesburg City of.....	Publicly Owned	67	31	31	39
Lumbree River Elec Member Corp .....	Cooperative	230	—	—	—
Lumberton City of.....	Publicly Owned	1	1	26	28
Lynches River Elec Coop Inc.....	Cooperative	183	0	0	0
Manassas City of.....	Publicly Owned	205	198	298	215
Marietta City of.....	Publicly Owned	39	0	0	0
Mecklenburg Electric Coop Inc.....	Cooperative	118	101	105	116
Mid-Carolina Electric Coop Inc .....	Cooperative	1,290	1,135	1,246	1,335
Mississippi Power Co .....	Investor-Owned	106	269	253	265
Mitchell Electric Member Corp.....	Cooperative	28	28	28	35
Monroe City of.....	Publicly Owned	540	42	50	100
Municipal Electric Authority .....	Publicly Owned	14	0	0	0
New Bern City of.....	Publicly Owned	258	750	2,300	195
New River Light & Power Co.....	Publicly Owned	32	27	27	29
New Smyrna Beach Utils Comm .....	Publicly Owned	62	245	252	281
North Carolina Eastern M P A.....	Publicly Owned	1,741	1,804	1,906	2,200
North Carolina El Member Corp.....	Cooperative	4,375	12,368	13,383	20,999
North Carolina Mun Power Agny.....	Publicly Owned	1,547	1,285	1,325	1,487
Northern Neck Elec Coop Inc .....	Cooperative	20	31	32	33
Northern Virginia Elec Coop.....	Cooperative	2,229	2,329	2,437	3,133
Ocala City of.....	Publicly Owned	180	202	245	280

See footnotes at end of table.

**Table 22. U.S. Electric Utility DSM Program Costs by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1993	1994	1995	1999
<b>SERC (Continued)</b>					
Orangeburg City of .....	Publicly Owned	0	10	100	362
Orlando Utilities Comm.....	Publicly Owned	1,141	2,071	2,245	2,903
Palmetto Electric Coop Inc.....	Cooperative	661	547	457	182
Pee Dee Electric Member Corp.....	Cooperative	194	—	—	—
Piedmont Electric Member Corp.....	Cooperative	104	—	—	—
Piedmont Municipal Power Agny .....	Publicly Owned	—	1,719	1,289	243
Planters Electric Member Corp.....	Cooperative	46	46	20	31
Prince George Electric Coop.....	Cooperative	21	21	27	42
Randolph Electric Member Corp.....	Cooperative	52	—	—	—
Rappahannock Electric Coop.....	Cooperative	553	637	650	750
Rayle Electric Membership Corp.....	Cooperative	29	22	26	44
Reedy Creek Improvement Dist.....	Publicly Owned	92	143	152	152
Roanoke Electric Member Corp.....	Cooperative	35	—	—	—
Rock Hill City of .....	Publicly Owned	837	1,205	45	45
Rocky Mount City of.....	Publicly Owned	1,125	125	7,125	1,125
Rutherford Elec Member Corp.....	Cooperative	416	—	—	—
Satilla Rural Elec Member Corp.....	Cooperative	32	32	32	41
Savannah Electric & Power Co.....	Investor-Owned	3,039	1,161	1,161	1,161
Sawnee Electric Members Corp.....	Cooperative	547	446	439	442
Shenandoah Valley Elec Coop.....	Cooperative	119	127	237	168
Singing River Elec Power Assn.....	Cooperative	80	125	134	141
Snapping Shoals El Member Corp.....	Cooperative	845	802	802	802
South Carolina Electric&Gas Co.....	Investor-Owned	10,211	9,120	12,810	9,371
South Carolina Pub Serv Auth.....	Publicly Owned	8,962	9,509	10,501	15,827
South Mississippi El Pwr Assn.....	Cooperative	84	103	82	108
Southside Electric Coop Inc.....	Cooperative	62	39	67	42
Sumter Electric Coop Inc.....	Cooperative	726	746	444	289
Suwannee Valley Elec Coop Inc.....	Cooperative	107	64	65	74
Tallahassee City of.....	Publicly Owned	951	777	194	1,251
Tampa Electric Co.....	Investor-Owned	15,923	17,334	18,080	19,036
Tennessee Valley Authority.....	Federal	72,445	63,132	65,400	72,600
Thomasville City of.....	Publicly Owned	52	71	71	0
Tideland Electric Member Corp.....	Cooperative	95	—	—	—
Tri-County Elec Member Corp.....	Cooperative	—	75	76	81
Tri-County Elec Member Corp.....	Cooperative	210	231	251	371
Troup Electric Members Corp.....	Cooperative	117	0	0	0
Union Electric Membership Corp.....	Cooperative	15	—	—	—
Vero Beach City of.....	Publicly Owned	—	182	186	214
Virginia Electric & Power Co.....	Investor-Owned	32,398	36,333	38,753	47,220
Wake Electric Membership Corp.....	Cooperative	467	495	518	563
Walton Electric Member Corp.....	Cooperative	491	473	513	673
Washington City of.....	Publicly Owned	247	1,750	650	80
Washington Elec Member Corp.....	Cooperative	16	17	20	22
Wilson City of.....	Publicly Owned	—	614	3,655	650
Withlacoochee River Elec Coop.....	Cooperative	59	79	1,160	5,606
York Electric Coop Inc.....	Cooperative	45	52	60	101
<b>SERC Total.....</b>		<b>643,081</b>	<b>684,647</b>	<b>696,378</b>	<b>739,252</b>
<b>SPP</b>					
Arkansas Power & Light Co.....	Investor-Owned	123	273	237	394
Bailey County Elec Coop Assn.....	Cooperative	6	6	10	148
C & L Electric Coop Corp.....	Cooperative	5	5	5	7
Caddo Electric Coop Inc.....	Cooperative	69	50	53	53
Cajun Electric Power Coop Inc.....	Cooperative	—	1,320	1,466	1,940
Carroll Electric Coop Corp.....	Cooperative	93	84	33	41
Central Rural Electric Coop.....	Cooperative	73	80	49	57
Cookson Hills Elec Coop Inc.....	Cooperative	390	414	425	425
Craighead Electric Coop Corp.....	Cooperative	436	404	413	490
Dixie Electric Membership Corp.....	Cooperative	—	121	123	325
Duncan City of.....	Publicly Owned	50	90	96	127
Empire District Electric Co.....	Investor-Owned	495	715	716	775
First Electric Coop Corp.....	Cooperative	996	145	90	73
Golden Spread Elec Coop Inc.....	Cooperative	60	60	60	60
Gulf States Utilities Co.....	Investor-Owned	2,700	593	593	0
Independence City of.....	Publicly Owned	150	122	135	138
Indian Electric Coop Inc.....	Cooperative	48	45	48	30
Kansas City City of.....	Publicly Owned	—	269	278	311
Kansas City Power & Light Co.....	Investor-Owned	1,060	1,190	1,164	1,164

See footnotes at end of table.

**Table 22. U.S. Electric Utility DSM Program Costs by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1993	1994	1995	1999
<b>SPP (Continued)</b>					
Kansas Electric Power Coop Inc.....	Cooperative	73	53	25	75
Kansas Gas & Electric Co.....	Investor-Owned	1,525	1,336	812	0
Mississippi Cnty Elec Coop Inc.....	Cooperative	36	28	30	40
New Orleans Public Service Inc.....	Investor-Owned	—	616	3,457	0
North Arkansas Elec Coop Inc.....	Cooperative	228	190	180	180
Northeast Louisiana Power Coop.....	Cooperative	59	51	20	20
Oklahoma Gas & Electric Co.....	Investor-Owned	18,968	12,824	14,959	16,341
Oklahoma Municipal Power Auth.....	Publicly Owned	—	221	235	102
Osceola City of.....	Publicly Owned	300	300	700	500
Ozark Electric Coop Inc.....	Cooperative	3	3	3	6
Petit Jean Electric Coop Corp.....	Cooperative	170	179	192	203
Red River Valley Rrl Elec Assn.....	Cooperative	88	112	112	116
South Central Ark El Coop Inc.....	Cooperative	3	3	3	3
South Plains Electric Coop Inc.....	Cooperative	452	462	530	600
Southwestern Electric Power Co.....	Investor-Owned	934	2,002	2,056	5,642
Southwestern Public Service Co.....	Investor-Owned	974	1,481	976	966
Verdigris Valley Elec Coop Inc.....	Cooperative	116	116	121	139
Western Resources Inc.....	Investor-Owned	2,618	2,565	2,200	1,632
White River Valley El Coop Inc.....	Cooperative	8	7	7	15
Woodruff Electric Coop Corp.....	Cooperative	67	91	105	135
<b>SPP Total</b> .....		<b>33,376</b>	<b>28,626</b>	<b>32,717</b>	<b>33,273</b>
<b>WSCC(U.S.)</b>					
Alameda City of.....	Publicly Owned	332	215	232	180
Anaheim City of.....	Publicly Owned	1,495	3,335	4,526	4,978
Arizona Electric Pwr Coop Inc.....	Cooperative	700	111	500	1,000
Arizona Public Service Co.....	Investor-Owned	6,010	6,008	7,810	5,086
Ashland City of.....	Publicly Owned	100	—	—	—
Black Hills Corp.....	Investor-Owned	441	—	—	—
Bonneville Power Admin.....	Federal	165,269	183,361	184,103	0
Boulder City City of.....	Publicly Owned	—	87	92	142
Bountiful City City of.....	Publicly Owned	66	46	59	101
Colorado Springs City of.....	Publicly Owned	265	250	250	250
Colton City of.....	Publicly Owned	154	150	150	150
Columbia River Peoples Ut Dist.....	Publicly Owned	—	100	100	100
Dixie Escalante R E A Inc.....	Cooperative	—	9	10	15
El Paso Electric Co.....	Investor-Owned	1,132	1,141	1,691	2,000
Ellensburg City of.....	Publicly Owned	—	331	733	175
Eugene City of.....	Publicly Owned	—	3,500	3,280	3,150
Forest Grove City of.....	Publicly Owned	245	—	—	—
Fort Collins City of.....	Publicly Owned	296	749	898	1,000
Idaho Power Co.....	Investor-Owned	8,575	6,588	8,000	3,000
Imperial Irrigation District.....	Publicly Owned	493	680	696	822
La Plata Electric Assn Inc.....	Cooperative	17	22	27	265
Longmont City of.....	Publicly Owned	128	138	149	170
Los Angeles City of.....	Publicly Owned	17,903	17,298	14,417	14,417
Loveland City of.....	Publicly Owned	136	153	159	175
Modesto Irrigation District.....	Publicly Owned	1,154	1,470	1,250	1,500
Mohave Electric Coop Inc.....	Cooperative	20	17	24	45
Montana Power Co.....	Investor-Owned	10,437	12,193	12,816	5,598
Mountain Parks Electric Inc.....	Cooperative	—	4	8	10
Navapache Electric Coop Inc.....	Cooperative	145	149	154	172
Nevada Power Co.....	Investor-Owned	6,824	7,898	3,670	4,993
Overton Power District No 5.....	Publicly Owned	5	42	36	36
Pacific Gas & Electric Co.....	Investor-Owned	130,785	162,198	122,706	122,706
PacifiCorp.....	Investor-Owned	41,000	34,484	47,268	51,142
Palo Alto City of.....	Publicly Owned	900	250	250	250
Pasadena City of.....	Publicly Owned	507	405	540	630
Portland General Electric Co.....	Investor-Owned	17,202	24,001	22,875	10,000
Provo City Corp.....	Publicly Owned	—	801	30	121
Public Service Co of Colorado.....	Investor-Owned	7,938	8,527	12,754	172
Public Service Co of NM.....	Investor-Owned	156	—	—	—
Puget Sound Power & Light Co.....	Investor-Owned	59,763	33,006	18,517	18,517
PUD No 1 of Chelan County.....	Publicly Owned	300	—	—	—
PUD No 1 of Pend Oreille Cnty.....	Publicly Owned	—	70	94	300
PUD No 2 of Grant County.....	Publicly Owned	—	245	1,250	500
Redding City of.....	Publicly Owned	124	142	152	266
Riverside City of.....	Publicly Owned	840	921	517	543

See footnotes at end of table.

**Table 22. U.S. Electric Utility DSM Program Costs by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1993, 1994, 1995, and 1999**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1993	1994	1995	1999
<b>WSCC(U.S.) (Continued)</b>					
Roseville City of.....	Publicly Owned	331	546	657	700
Sacramento Municipal Util Dist.....	Publicly Owned	36,307	46,924	48,582	31,000
Salt River Proj Ag I & P Dist.....	Publicly Owned	8,830	6,954	7,748	8,890
San Diego Gas & Electric Co.....	Investor-Owned	33,017	38,472	48,941	48,941
Santa Clara City of.....	Publicly Owned	400	403	403	403
Seattle City of.....	Publicly Owned	23,590	22,132	23,564	30,400
Sierra Pacific Power Co.....	Investor-Owned	4,145	2,733	1,000	1,286
Southern California Edison Co.....	Investor-Owned	128,853	131,856	67,370	75,826
Springfield City of.....	Publicly Owned	1,670	2,160	2,160	2,285
Sulphur Springs Valley E C Inc.....	Cooperative	140	107	130	400
Tacoma City of.....	Publicly Owned	8,430	7,308	11,248	13,051
Trico Electric Coop Inc.....	Cooperative	10	4	3	3
Tucson Electric Power Co.....	Investor-Owned	2,840	3,317	4,476	4,806
Turlock Irrigation District.....	Publicly Owned	894	745	250	250
United Power Inc.....	Cooperative	—	418	73	112
Vera Irrigation District # 15.....	Publicly Owned	40	40	40	52
Vernon City of.....	Publicly Owned	155	60	75	180
Washington Water Power Co.....	Investor-Owned	25,274	16,954	5,009	2,997
Yellowstone Vly Elec Coop Inc.....	Cooperative	164	159	165	179
<b>WSCC(U.S.) Total.....</b>		<b>756,947</b>	<b>792,387</b>	<b>694,687</b>	<b>476,438</b>
<b>Contiguous U.S. ....</b>		<b>2,741,832</b>	<b>2,714,683</b>	<b>2,588,482</b>	<b>2,452,963</b>
<b>ASCC</b>					
Alaska Electric Light&Power Co.....	Investor-Owned	56	135	167	340
Golden Valley Elec Assn Inc.....	Cooperative	363	251	684	821
<b>ASCC Total .....</b>		<b>419</b>	<b>386</b>	<b>851</b>	<b>1,161</b>
<b>Hawaii</b>					
Hawaii Electric Light Co Inc.....	Investor-Owned	183	228	0	9,832
Hawaiian Electric Co Inc.....	Investor-Owned	968	246	2,865	24,513
Maui Electric Co Ltd.....	Investor-Owned	131	114	0	3,689
<b>Hawaii Total .....</b>		<b>1,282</b>	<b>588</b>	<b>2,865</b>	<b>38,034</b>
<b>U.S. Total.....</b>		<b>2,743,533</b>	<b>2,715,657</b>	<b>2,592,198</b>	<b>2,492,158</b>

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours.

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

**Table 23. U.S. Electric Utility DSM Program Direct Utility Costs by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Thousand Dollars)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total Direct Utility Cost <sup>1</sup>
<b>ECAR</b>						
Appalachian Power Co.....	632	0	0	10	0	642
Buckeye Power Inc .....	0	1,831	0	0	0	1,831
Cincinnati Gas & Electric Co.....	3,614	2,597	0	0	0	6,211
Cleveland Electric Illum Co .....	2,377	0	0	0	0	2,377
Columbus Southern Power Co.....	2,101	165	0	11	0	2,277
Consumers Power Co.....	2,977	95	370	40	0	3,482
Crawfordsville Elec Lgt&Pwr Co.....	4	0	0	0	0	4
Detroit Edison Co.....	6,808	10	0	0	0	6,818
East Kentucky Power Coop Inc.....	1,000	0	0	400	0	1,400
Hamilton City of .....	0	0	0	5	10	15
Indiana Michigan Power Co .....	1,226	10	0	0	0	1,236
Indiana Municipal Power Agency .....	0	5	0	0	0	5
Indianapolis Power & Light Co.....	2,224	0	614	185	104	3,127
Kentucky Power Co .....	15	0	0	0	0	15
Kentucky Utilities Co.....	1,961	0	799	41	0	2,801
Lansing City of.....	48	0	0	0	22	70
Louisville Gas & Electric Co .....	340	0	0	0	0	340
Midwest Electric Inc .....	0	80	0	0	0	80
Monongahela Power Co.....	346	0	24	0	0	370
Ohio Edison Co.....	6,032	2,612	3,478	9	0	12,131
Ohio Power Co.....	1,853	0	0	980	0	2,833
Owen Electric Coop Inc.....	31	0	0	0	0	31
Pennsylvania Power Co.....	457	0	2,598	0	0	3,055
Potomac Edison Co .....	11,379	0	0	0	0	11,379
PSI Energy Inc .....	36,728	32	1,030	0	0	37,790
South Central Power Co .....	120	500	0	0	130	750
Southern Indiana Gas & Elec Co.....	3,449	3,119	1,102	0	0	7,670
Toledo Edison Co.....	1,518	0	0	0	0	1,518
Wabash Valley Power Assn Inc .....	0	0	450	0	0	450
West Penn Power Co .....	1,659	0	0	0	483	2,142
Wolverine Pwr Supply Coop Inc.....	0	1,345	0	0	0	1,345
<b>ECAR Total .....</b>	<b>88,899</b>	<b>12,401</b>	<b>10,465</b>	<b>1,681</b>	<b>749</b>	<b>114,195</b>
<b>ERCOT</b>						
Austin City of.....	8,824	24	0	0	0	8,848
Brazos Electric Power Coop Inc.....	418	0	0	0	0	418
Bryan City of.....	528	0	54	0	0	582
Central Power & Light Co.....	2,225	0	0	0	1,004	3,229
College Station City of .....	24	0	0	0	0	24
Denton City of.....	73	93	0	0	3	169
Garland City of.....	0	317	297	0	0	614
Greenville Electric Util Sys .....	1	0	25	0	0	26
Guadalupe Valley Elec Coop Inc .....	0	315	0	0	0	315
Houston Lighting & Power Co.....	9,968	6,661	0	3,162	0	19,791
Johnson County Elec Coop Assn .....	130	0	0	0	0	130
Lower Colorado River Authority.....	3,575	139	0	0	0	3,714
Magic Valley Electric Coop Inc .....	86	0	0	0	0	86
Medina Electric Coop Inc .....	0	0	0	26	0	26
San Bernard Electric Coop Inc.....	16	0	0	47	0	63
San Marcos City of .....	61	21	0	0	0	82
Texas Utilities Electric Co.....	10,455	0	0	1,988	0	12,443
Texas-New Mexico Power Co.....	675	0	0	0	93	768
Tri-County Electric Coop Inc .....	99	0	0	0	0	99
West Texas Utilities Co.....	2,269	0	0	0	125	2,394
<b>ERCOT Total .....</b>	<b>39,427</b>	<b>7,570</b>	<b>376</b>	<b>5,223</b>	<b>1,225</b>	<b>53,821</b>
<b>MAAC</b>						
A & N Electric Coop .....	0	148	0	0	0	148
Adams Electric Coop Inc.....	29	356	0	0	77	462
Allegheny Electric Coop Inc.....	0	212	0	0	0	212
Atlantic City Electric Co.....	5,546	1,329	537	85	0	7,497
Baltimore Gas & Electric Co.....	34,327	11,996	3,210	1,083	0	50,616
Bedford Rural Elec Coop Inc .....	0	79	0	3	0	82
Central Electric Coop Inc .....	0	109	0	0	0	109
Choptank Electric Coop Inc.....	0	240	0	0	0	240
Claverack Rural Elec Coop Inc .....	0	106	0	0	0	106
Conowingo Power Co.....	535	88	0	0	0	623

See footnotes at end of table.

**Table 23. U.S. Electric Utility DSM Program Direct Utility Costs by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total Direct Utility Cost <sup>1</sup>
<b>MAAC (Continued)</b>						
Delaware Electric Coop Inc.....	0	838	0	0	0	838
Delmarva Power & Light Co.....	2,518	3,573	0	75	0	6,166
Easton Utilities Comm.....	93	0	0	0	0	93
Jersey Central Power&Light Co.....	16,127	4,177	0	0	0	20,304
Metropolitan Edison Co.....	2,776	0	5	696	0	3,477
Northwestern Rural E C A Inc.....	0	321	0	0	0	321
Pennsylvania Electric Co.....	4,270	0	0	0	0	4,270
Pennsylvania Power & Light Co.....	7,105	0	0	2,108	140	9,353
Potomac Electric Power Co.....	91,358	15,227	1,939	1,905	0	110,429
Public Service Electric&Gas Co.....	9,000	10,600	9,800	0	8,100	37,500
PECO Energy Co.....	7,214	1	996	585	786	9,582
Somerset Rural Elec Coop Inc.....	0	53	0	0	0	53
Southern Maryland El Coop Inc.....	4,248	3,176	0	0	0	7,424
Southwest Central R E C Corp.....	0	19	0	0	0	19
Tri-County Rural Elec Coop Inc.....	0	8	0	0	0	8
United Electric Coop Inc.....	0	23	0	0	0	23
UGI Utilities Inc.....	52	0	0	0	0	52
Valley Rural Electric Coop Inc.....	3	53	0	3	0	59
<b>MAAC Total.....</b>	<b>185,201</b>	<b>52,732</b>	<b>16,487</b>	<b>6,543</b>	<b>9,103</b>	<b>270,066</b>
<b>MAIN</b>						
Boone Electric Coop.....	75	0	0	0	0	75
Central Illinois Light Co.....	7	49	1,728	0	0	1,784
Coles-Moultrie Electric Coop.....	0	100	0	0	0	100
Columbia City of.....	66	255	0	0	0	321
Commonwealth Edison Co.....	85	9	2,211	0	0	2,305
Corn Belt Electric Coop Inc.....	0	0	0	0	192	192
Cuivre River Electric Coop Inc.....	55	128	0	0	0	183
Eastern Illini Electric Coop.....	0	50	12	0	0	62
Madison Gas & Electric Co.....	5,288	301	0	0	0	5,589
Manitowoc Public Utilities.....	324	0	0	0	0	324
Marshfield City of.....	61	0	0	0	0	61
Menard Electric Coop.....	0	63	7	0	0	70
Shelby Electric Coop Inc.....	5	2	5	3	0	15
Southeastern IL Elec Coop Inc.....	0	0	0	0	4	4
Southwestern Electric Coop Inc.....	0	60	0	0	0	60
Springfield City of.....	222	0	0	0	0	222
Tri-County Electric Coop Inc.....	0	50	50	0	0	100
Union Electric Co.....	0	0	12,071	0	0	12,071
Wayne-White Counties Elec Coop.....	0	10	10	0	0	20
Wisconsin Electric Power Co.....	22,732	2,178	4	269	0	25,183
Wisconsin Power & Light Co.....	9,212	492	0	0	497	10,201
Wisconsin Public Power Inc Sys.....	629	0	0	0	0	629
Wisconsin Public Service Corp.....	6,000	200	3,500	100	0	9,800
<b>MAIN Total.....</b>	<b>44,761</b>	<b>3,947</b>	<b>19,598</b>	<b>372</b>	<b>693</b>	<b>69,371</b>
<b>MAPP(U.S.)</b>						
Ames City of.....	10	198	0	0	0	208
Anoka City of.....	2	1	0	0	6	9
Austin City of.....	49	39	0	27	0	115
Barron Electric Coop.....	32	6	1	0	0	39
Beatrice City of.....	5	67	0	0	0	72
Cass County Electric Coop Inc.....	13	65	0	0	0	78
Cedar Falls City of.....	225	0	0	0	0	225
Central Iowa Power Coop.....	250	0	0	642	0	892
Central Power Elec Coop Inc.....	0	92	0	0	0	92
Clark Electric Coop.....	0	23	0	0	0	23
Coop Power Assn.....	1,370	5,315	0	36	453	7,174
Cornhusker Public Power Dist.....	0	25	0	0	0	25
Dawson County Public Pwr Dist.....	0	0	29	0	0	29
East Grand Forks City of.....	0	49	0	0	0	49
East River Elec Power Coop Inc.....	603	1,893	0	0	0	2,496
Fairmont Public Utilities Comm.....	0	81	0	0	49	130
Grant-Lafayette Electric Coop.....	5	32	2	11	5	55
Interstate Power Co.....	3,735	2,599	19	0	125	6,478

See footnotes at end of table.



**Table 23. U.S. Electric Utility DSM Program Direct Utility Costs by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total Direct Utility Cost <sup>1</sup>
<b>MAPP(U.S.) (Continued)</b>						
Iowa Lakes Electric Coop.....	224	2	0	2	0	228
Iowa-Illinois Gas&Electric Co.....	6,823	0	0	0	0	6,823
IES Utilities Inc.....	6,284	415	33	145	0	6,877
L & O Power Coop.....	0	20	0	0	0	20
Lexington City of.....	0	130	0	0	0	130
Lincoln Electric System.....	105	0	0	8	0	113
Loup River Public Power Dist.....	0	0	65	0	0	65
Marshall City of.....	2	0	1	0	119	122
Midland Power Coop.....	87	1	0	0	0	88
Midwest Power Systems Inc.....	8,741	3,115	6,344	0	91	18,291
Minnesota Power & Light Co.....	7,956	0	0	0	0	7,956
Minnesota Valley Electric Coop.....	0	281	90	15	4	390
Minnkota Power Coop Inc.....	0	2,028	0	0	0	2,028
Moorhead City of.....	10	10	0	0	0	20
Mountrail-Williams El Coop Inc.....	17	60	0	0	0	77
Municipal Energy Agency of NE.....	4	10	0	0	0	14
Muscatine City of.....	217	0	0	0	0	217
MDU Resources Group Inc.....	0	109	0	0	0	109
Nebraska Public Power District.....	0	22	0	0	0	22
Nodak Electric Coop Inc.....	0	18	0	0	0	18
Norris Public Power District.....	0	0	50	40	0	90
North Platte City of.....	0	82	0	1	0	83
Northern States Power Co of MN.....	34,125	5,721	1,276	83	0	41,205
Northern States Power Co of WI.....	3,614	448	60	552	0	4,674
Northwest Iowa Power Coop.....	67	445	0	0	0	512
Northwestern Public Service Co.....	0	0	6	0	0	6
Northwestern Wisconsin Elec Co.....	50	0	0	21	0	71
Oakdale Electric Coop.....	0	67	0	0	0	67
Oliver-Mercer Elec Coop Inc.....	0	6	0	0	0	6
Omaha Public Power District.....	0	707	0	0	0	707
Otter Tail Power Co.....	1,762	189	0	0	0	1,951
Owatonna City of.....	37	90	0	0	0	127
People 's Coop Power Assn.....	76	5	0	0	0	81
Pierre City of.....	15	1	0	0	0	16
Polk-Burnett Electric Coop.....	0	360	0	0	0	360
Rice Lake Utilities.....	70	0	0	0	0	70
Rochester Public Utilities.....	157	407	0	0	0	564
Roseau Electric Coop Inc.....	0	58	0	0	0	58
Shakopee Public Utilities Comm.....	4	0	30	0	0	34
Spencer City of.....	10	0	0	0	0	10
Superior Water Light&Power Co.....	292	0	0	0	0	292
Tri-County Electric Coop.....	1	129	0	0	0	130
United Power Assn.....	1,469	1,350	0	1,350	0	4,169
Verendrye Electric Coop Inc.....	0	25	25	0	0	50
Vernon Electric Coop.....	15	44	1	0	0	60
Wild Rice Electric Coop Inc.....	0	65	0	0	0	65
<b>MAPP(U.S.) Total</b> .....	<b>78,533</b>	<b>26,905</b>	<b>8,032</b>	<b>2,933</b>	<b>852</b>	<b>117,255</b>
<b>NPCC(U.S.)</b>						
Arcade Village of.....	0	3	0	0	0	3
Bangor Hydro-Electric Co.....	566	135	0	0	0	701
Boston Edison Co.....	46,596	0	303	0	0	46,899
Braintree Town of.....	60	28	0	10	6	104
Burlington City of.....	411	0	0	0	0	411
Cambridge Electric Light Co.....	1,057	0	3	0	0	1,060
Central Hudson Gas & Elec Corp.....	2,227	0	258	65	0	2,550
Central Maine Power Co.....	9,670	125	0	0	0	9,795
Central Vermont Pub Serv Corp.....	4,800	0	0	0	0	4,800
Chicopee City of.....	565	0	0	0	0	565
Citizens Utilities Co.....	951	0	0	0	0	951
Commonwealth Electric Co.....	4,159	0	17	0	0	4,176
Concord Electric Co.....	361	0	0	0	0	361
Connecticut Light & Power Co.....	32,081	0	0	0	0	32,081
Connecticut Valley Elec Co Inc.....	217	0	0	0	0	217
Consolidated Edison Co-NY Inc.....	82,865	0	1,028	0	0	83,893
Exeter & Hampton Electric Co.....	473	0	0	0	0	473

See footnotes at end of table.

**Table 23. U.S. Electric Utility DSM Program Direct Utility Costs by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total Direct Utility Cost <sup>1</sup>
<b>NPCC(U.S.) (Continued)</b>						
Fitchburg Gas & Elec Light Co .....	773	0	0	0	0	773
Granite State Electric Co .....	1,373	0	0	0	0	1,373
Green Mountain Power Corp .....	2,806	322	0	0	0	3,128
Hingham City of .....	25	80	0	0	0	105
Holyoke City of .....	25	0	0	0	0	25
Jamestown City of .....	4	0	0	0	21	25
Littleton Town of .....	0	7	0	0	2	9
Long Island Lighting Co .....	15,507	0	256	0	0	15,763
Maine Public Service Co .....	70	1	0	0	21	92
Massachusetts Electric Co .....	51,025	0	0	0	0	51,025
Massena Town of .....	0	15	0	0	0	15
Montaup Electric Co .....	11,777	0	0	0	0	11,777
Narragansett Electric Co .....	8,071	0	0	0	0	8,071
New England Power Co .....	0	3,668	4,271	0	0	7,939
New Hampshire Elec Coop Inc .....	0	668	0	0	0	668
New York State Elec & Gas Corp .....	14,366	0	0	0	0	14,366
Niagara Mohawk Power Corp .....	28,657	0	0	0	0	28,657
North Attleborough Town of .....	45	0	98	0	0	143
Norwood City of .....	204	61	0	5	20	290
Omya Inc .....	1	0	0	0	0	1
Orange & Rockland Utils Inc .....	9,011	32	3,093	0	0	12,136
Power Authority of State of NY .....	6,105	0	0	0	0	6,105
Public Service Co of NH .....	985	0	0	0	0	985
Reading Town of .....	10	15	50	0	80	155
Rochester Gas & Electric Corp .....	7,986	0	0	0	0	7,986
Shrewsbury Town of .....	138	20	0	0	0	158
Taunton City of .....	500	0	0	0	93	593
United Illuminating Co .....	10,406	0	139	395	0	10,940
Wellesley Town of .....	0	18	0	0	0	18
Western Massachusetts Elec Co .....	9,493	0	0	0	0	9,493
<b>NPCC(U.S.) Total .....</b>	<b>366,422</b>	<b>5,198</b>	<b>9,516</b>	<b>475</b>	<b>243</b>	<b>381,854</b>
<b>SERC</b>						
Aiken Electric Coop Inc .....	80	200	0	0	4	284
Alabama Electric Coop Inc .....	518	0	0	0	55	573
Alabama Municipal Elec Auth .....	0	281	0	0	0	281
Alabama Power Co .....	7,616	65	18,476	56	390	26,603
Albemarle City of .....	0	50	13	0	0	63
Altamaha Electric Member Corp .....	1	3	1	0	2	7
Amicalola Electric Member Corp .....	16	50	0	0	0	66
Berkeley Electric Coop Inc .....	0	450	0	0	0	450
Black River Electric Coop Inc .....	20	164	0	0	0	184
Brunswick Electric Member Corp .....	155	430	15	0	0	600
BARC Electric Coop Inc .....	0	98	0	0	0	98
Canochee Electric Member Corp .....	0	5	0	0	0	5
Carolina Power & Light Co .....	22,700	8,400	17,300	1,100	0	49,500
Carroll Electric Member Corp .....	6	62	0	0	0	68
Central Florida Elec Coop Inc .....	0	18	0	0	0	18
Central Georgia El Member Corp .....	6	74	0	0	0	80
Choctawhatche Elec Coop Inc .....	120	0	0	0	9	129
Clay Electric Coop Inc .....	0	2,848	0	17	0	2,865
Coastal Electric Member Corp .....	89	46	0	0	0	135
Cobb Electric Membership Corp .....	142	1,241	0	0	0	1,383
Colquitt Electric Members Corp .....	0	199	0	330	0	529
Community Electric Coop .....	0	154	0	0	0	154
Coweta-Fayette El Member Corp .....	198	124	0	0	0	322
Crescent Electric Member Corp .....	0	809	2	11	0	822
Crisp County Power Comm .....	0	0	2	0	0	2
Davidson Electric Member Corp .....	13	25	0	0	18	56
Douglas City of .....	1	3	1	0	0	5
Duke Power Co .....	12,611	15,128	27,640	57	0	55,436
Easley Combined Utility System .....	0	2	0	0	0	2
East Point City of .....	3	3	4	0	1	11
Excelsior Electric Member Corp .....	0	0	9	31	0	40
Fairfield Electric Coop Inc .....	0	6	0	0	225	231
Fayetteville Public Works Comm .....	25	0	0	0	0	25

See footnotes at end of table.

**Table 23. U.S. Electric Utility DSM Program Direct Utility Costs by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total Direct Utility Cost <sup>1</sup>
<b>SERC (Continued)</b>						
Fitzgerald Wtr Lgt & Bond Comm .....	0	20	0	0	0	20
Flint Electric Membership Corp .....	280	1,111	0	0	0	1,391
Florida Keys El Coop Assn Inc.....	0	195	0	0	0	195
Florida Power & Light Co.....	55,748	90,112	0	0	3,196	149,056
Florida Power Corp.....	6,920	73,508	16,799	369	0	97,596
Fort Pierce Utilities Auth.....	175	0	0	0	0	175
Gainesville Regional Utilities .....	419	0	0	0	175	594
Georgia Power Co.....	35,637	748	18,340	0	0	54,725
Grady County Elec Member Corp.....	12	18	0	0	1	31
Greenville Utilities Comm.....	62	420	0	0	0	482
GreyStone Power Corp .....	0	306	0	0	0	306
Gulf Power Co.....	2,093	0	0	0	0	2,093
Harrisonburg City of.....	32	0	4	18	0	54
Hart Electric Member Corp .....	145	50	0	0	0	195
Haywood Electric Member Corp.....	2	48	10	4	2	66
High Point Town of .....	0	219	0	0	0	219
Jackson Electric Member Corp.....	135	212	5	0	0	352
Jacksonville Electric Auth.....	762	0	0	0	0	762
Jefferson Electric Member Corp.....	11	23	5	0	0	39
Jones-Onslow Elec Member Corp.....	54	60	0	0	0	114
Kinston City of.....	0	50	0	0	0	50
Kissimmee Utility Authority.....	168	656	0	0	0	824
Lakeland City of.....	0	472	0	0	0	472
Lamar Electric Membership Corp .....	0	0	0	3	0	3
Laurens Electric Coop Inc .....	30	0	0	0	3	33
Laurinburg City of.....	0	13	0	0	0	13
Lawrenceville City of.....	0	2	1	0	0	3
Lee County Electric Coop Inc .....	318	1,332	35	0	0	1,685
Leesburg City of.....	0	20	0	0	0	20
Lumberton City of.....	0	1	0	0	0	1
Manassas City of.....	0	90	0	0	0	90
Mecklenburg Electric Coop Inc .....	0	84	2	0	3	89
Mid-Carolina Electric Coop Inc .....	0	947	0	0	43	990
Mississippi Power Co.....	269	0	0	0	0	269
Mitchell Electric Member Corp.....	0	25	3	0	0	28
Monroe City of.....	0	32	10	0	0	42
New Bern City of.....	0	635	50	0	0	685
New River Light & Power Co.....	0	23	0	0	0	23
New Smyrna Beach Utils Comm .....	0	245	0	0	0	245
North Carolina Eastern M P A.....	0	1,392	0	70	0	1,462
North Carolina El Member Corp.....	0	12,368	0	0	0	12,368
North Carolina Mun Power Agny .....	0	855	0	52	0	907
Northern Neck Elec Coop Inc .....	0	31	0	0	0	31
Northern Virginia Elec Coop.....	176	889	1,169	0	0	2,234
Ocala City of .....	115	87	0	0	0	202
Orlando Utilities Comm.....	867	94	0	0	0	961
Palmetto Electric Coop Inc .....	113	389	6	39	0	547
Piedmont Municipal Power Agny.....	0	1,719	0	0	0	1,719
Planters Electric Member Corp.....	0	0	9	32	5	46
Prince George Electric Coop .....	0	20	0	0	0	20
Rappahannock Electric Coop .....	0	637	0	0	0	637
Rayle Electric Membership Corp .....	11	7	0	0	0	18
Reedy Creek Improvement Dist .....	75	0	0	0	0	75
Rock Hill City of.....	0	5	0	0	1,200	1,205
Rocky Mount City of.....	0	125	0	0	0	125
Satilla Rural Elec Member Corp .....	3	25	0	0	0	28
Savannah Electric & Power Co.....	1,161	0	0	0	0	1,161
Sawnee Electric Members Corp .....	23	360	0	0	0	383
Shenandoah Valley Elec Coop .....	0	66	0	0	0	66
Singing River Elec Power Assn .....	116	0	0	2	0	118
Snapping Shoals El Member Corp .....	340	177	0	0	0	517
South Carolina Electric&Gas Co.....	7,483	0	379	92	0	7,954
South Carolina Pub Serv Auth .....	3,666	5,099	0	0	0	8,765
South Mississippi El Pwr Assn.....	103	0	0	0	0	103
Southside Electric Coop Inc .....	0	29	0	0	0	29
Sumter Electric Coop Inc.....	0	687	0	7	0	694
Suwannee Valley Elec Coop Inc.....	0	64	0	0	0	64

See footnotes at end of table.

**Table 23. U.S. Electric Utility DSM Program Direct Utility Costs by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total Direct Utility Cost <sup>1</sup>
<b>SERC (Continued)</b>						
Tallahassee City of.....	421	0	0	0	0	421
Tampa Electric Co.....	5,187	11,531	0	214	0	16,932
Tennessee Valley Authority.....	4,661	4,471	0	0	0	9,132
Thomasville City of.....	0	26	0	0	0	26
Tri-County Elec Member Corp.....	29	46	0	0	0	75
Tri-County Elec Member Corp.....	0	210	2	0	0	212
Vero Beach City of.....	126	0	0	0	0	126
Virginia Electric & Power Co.....	11,880	11,156	7,201	240	0	30,477
Wake Electric Membership Corp.....	250	190	0	0	0	440
Walton Electric Member Corp.....	0	368	0	0	55	423
Washington City of.....	0	0	1,750	0	0	1,750
Washington Elec Member Corp.....	0	6	0	0	0	6
Wilson City of.....	4	75	500	0	0	579
Withlacoochee River Elec Coop.....	72	0	0	0	7	79
York Electric Coop Inc.....	0	0	0	3	0	3
<b>SERC Total.....</b>	<b>184,474</b>	<b>255,819</b>	<b>109,743</b>	<b>2,747</b>	<b>5,394</b>	<b>558,177</b>
<b>SPP</b>						
Arkansas Power & Light Co.....	0	273	0	0	0	273
Bailey County Elec Coop Assn.....	0	0	6	0	0	6
C & L Electric Coop Corp.....	0	0	5	0	0	5
Caddo Electric Coop Inc.....	0	50	0	0	0	50
Cajun Electric Power Coop Inc.....	822	0	0	0	0	822
Carroll Electric Coop Corp.....	0	74	0	0	0	74
Central Rural Electric Coop.....	0	80	0	0	0	80
Cookson Hills Elec Coop Inc.....	0	414	0	0	0	414
Craighead Electric Coop Corp.....	0	0	307	0	0	307
Dixie Electric Membership Corp.....	0	121	0	0	0	121
Duncan City of.....	90	0	0	0	0	90
Empire District Electric Co.....	0	0	641	0	74	715
First Electric Coop Corp.....	0	125	0	0	0	125
Gulf States Utilities Co.....	593	0	0	0	0	593
Independence City of.....	95	0	0	0	0	95
Indian Electric Coop Inc.....	0	45	0	0	0	45
Kansas City Power & Light Co.....	0	92	1,098	0	0	1,190
Kansas Electric Power Coop Inc.....	0	53	0	0	0	53
Kansas Gas & Electric Co.....	0	710	0	0	626	1,336
Mississippi Cnty Elec Coop Inc.....	0	28	0	0	0	28
North Arkansas Elec Coop Inc.....	0	190	0	0	0	190
Northeast Louisiana Power Coop.....	0	0	0	51	0	51
Oklahoma Gas & Electric Co.....	0	0	5,757	7,067	0	12,824
Oklahoma Municipal Power Auth.....	0	119	0	0	51	170
Osceola City of.....	0	0	300	0	0	300
Ozark Electric Coop Inc.....	1	0	1	0	0	2
Petit Jean Electric Coop Corp.....	0	139	10	0	0	149
Red River Valley Rrl Elec Assn.....	106	0	0	0	2	108
South Central Ark El Coop Inc.....	0	2	0	0	0	2
South Plains Electric Coop Inc.....	244	218	0	0	0	462
Southwestern Electric Power Co.....	1,420	0	0	0	0	1,420
Southwestern Public Service Co.....	1,433	0	48	0	0	1,481
Verdigris Valley Elec Coop Inc.....	0	95	4	0	0	99
Western Resources Inc.....	0	680	1,632	0	253	2,565
White River Valley El Coop Inc.....	0	0	1	0	0	1
Woodruff Electric Coop Corp.....	0	76	0	5	0	81
<b>SPP Total.....</b>	<b>4,804</b>	<b>3,584</b>	<b>9,810</b>	<b>7,123</b>	<b>1,006</b>	<b>26,327</b>
<b>WSCC(U.S.)</b>						
Alameda City of.....	85	0	62	0	0	147
Anaheim City of.....	367	0	515	20	1,952	2,854
Arizona Electric Pwr Coop Inc.....	111	0	0	0	0	111
Arizona Public Service Co.....	3,794	0	0	0	0	3,794
Bonneville Power Admin.....	115,885	0	11,276	0	10,200	137,361
Boulder City City of.....	0	10	0	2	75	87
Bountiful City City of.....	10	0	30	0	0	40
Colorado Springs City of.....	0	0	0	0	200	200

See footnotes at end of table.

**Table 23. U.S. Electric Utility DSM Program Direct Utility Costs by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Direct Load Control	Interruptible Load	Other Load Management	Other Demand-Side Management	Total Direct Utility Cost <sup>1</sup>
<b>WSCC(U.S.) (Continued)</b>						
Colton City of.....	150	0	0	0	0	150
Columbia River Peoples Ut Dist.....	100	0	0	0	0	100
Dixie Escalante R E A Inc.....	0	0	5	0	0	5
El Paso Electric Co.....	566	0	0	34	0	600
Ellensburg City of.....	331	0	0	0	0	331
Eugene City of.....	3,500	0	0	0	0	3,500
Idaho Power Co.....	6,588	0	0	0	0	6,588
Imperial Irrigation District.....	631	0	0	0	12	643
La Plata Electric Assn Inc.....	0	0	0	0	15	15
Longmont City of.....	57	0	0	0	10	67
Los Angeles City of.....	14,600	0	0	0	0	14,600
Loveland City of.....	62	0	0	0	15	77
Modesto Irrigation District.....	1,090	380	0	0	0	1,470
Mohave Electric Coop Inc.....	2	0	0	0	0	2
Montana Power Co.....	8,832	0	0	0	0	8,832
Mountain Parks Electric Inc.....	0	0	0	4	0	4
Navopache Electric Coop Inc.....	4	27	0	52	22	105
Nevada Power Co.....	2,612	3,932	417	368	0	7,329
Overton Power District No 5.....	16	0	0	0	0	16
Pacific Gas & Electric Co.....	124,995	0	1,900	21,500	0	148,395
PacifiCorp.....	27,303	0	0	0	0	27,303
Palo Alto City of.....	250	0	0	0	0	250
Pasadena City of.....	180	45	0	90	0	315
Portland General Electric Co.....	23,745	0	0	0	0	23,745
Provo City Corp.....	788	0	0	0	0	788
Public Service Co of Colorado.....	6,837	0	50	95	0	6,982
Puget Sound Power & Light Co.....	32,017	0	0	0	0	32,017
PUD No 1 of Pend Oreille Cnty.....	0	70	0	0	0	70
PUD No 2 of Grant County.....	243	0	0	2	0	245
Redding City of.....	0	24	10	35	73	142
Riverside City of.....	282	0	0	530	0	812
Roseville City of.....	406	115	0	0	0	521
Sacramento Municipal Util Dist.....	46,924	0	0	0	0	46,924
Salt River Proj Ag I & P Dist.....	2,485	93	0	427	287	3,292
San Diego Gas & Electric Co.....	30,038	119	232	340	136	30,865
Santa Clara City of.....	0	0	400	0	0	400
Seattle City of.....	14,263	0	0	0	0	14,263
Sierra Pacific Power Co.....	2,519	0	0	0	0	2,519
Southern California Edison Co.....	99,156	992	2,305	3,412	0	105,865
Springfield City of.....	1,732	0	0	0	0	1,732
Sulphur Springs Valley E C Inc.....	90	0	0	0	0	90
Tacoma City of.....	5,936	0	0	0	0	5,936
Trico Electric Coop Inc.....	0	0	4	0	0	4
Tucson Electric Power Co.....	3,317	0	0	0	0	3,317
Turlock Irrigation District.....	745	0	0	0	0	745
United Power Inc.....	10	0	380	1	1	392
Vera Irrigation District # 15.....	0	0	0	0	2	2
Vernon City of.....	0	0	0	8	8	16
Washington Water Power Co.....	15,258	0	0	0	0	15,258
Yellowstone Vly Elec Coop Inc.....	137	0	0	0	0	137
<b>WSCC(U.S.) Total.....</b>	<b>599,049</b>	<b>5,807</b>	<b>17,586</b>	<b>26,920</b>	<b>13,008</b>	<b>662,370</b>
<b>Contiguous U.S.....</b>	<b>1,591,570</b>	<b>373,963</b>	<b>201,613</b>	<b>54,017</b>	<b>32,273</b>	<b>2,253,436</b>
<b>ASCC</b>						
Alaska Electric Light&Power Co.....	0	68	0	0	0	68
Golden Valley Elec Assn Inc.....	65	0	0	0	0	65
<b>ASCC Total.....</b>	<b>65</b>	<b>68</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>133</b>
<b>Hawaii</b>						
Hawaii Electric Light Co Inc.....	228	0	0	0	0	228
Hawaiian Electric Co Inc.....	148	0	0	0	0	148
Maui Electric Co Ltd.....	114	0	0	0	0	114
<b>Hawaii Total.....</b>	<b>490</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>490</b>
<b>U.S. Total.....</b>	<b>1,592,125</b>	<b>374,031</b>	<b>201,613</b>	<b>54,017</b>	<b>32,273</b>	<b>2,254,059</b>

<sup>1</sup> Reflects electric utility cost incurred during the year that are identified with one of the demand-side management program categories.  
Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatt-hours.

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

**Table 24. U.S. Electric Utility DSM Program Indirect Utility Costs by North American Electric Reliability Council Region and Hawaii by Cost Category, 1994**  
(Thousand Dollars)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Administrative	Marketing	Monitoring and Evaluation	Other <sup>1</sup>	Total Indirect Utility Cost
<b>ECAR</b>					
American Mun Power-Ohio Inc.....	17	0	7	24	48
Appalachian Power Co.....	321	0	53	0	374
Cleveland Electric Illum Co.....	845	97	0	0	942
Columbus Southern Power Co.....	280	0	35	0	315
Consumers Power Co.....	1,119	0	1,755	0	2,874
Crawfordsville Elec Lgt&Pwr Co.....	3	0	0	0	3
Detroit Edison Co.....	250	0	532	0	782
East Kentucky Power Coop Inc.....	400	100	100	0	600
Indiana Michigan Power Co.....	121	0	4	0	125
Indianapolis Power & Light Co.....	0	0	0	630	630
Kentucky Power Co.....	97	0	0	0	97
Kentucky Utilities Co.....	590	1,100	110	0	1,800
Lansing City of.....	0	8	2	0	10
Monongahela Power Co.....	0	113	0	0	113
Ohio Edison Co.....	0	0	1,039	0	1,039
Ohio Power Co.....	168	0	41	0	209
Owen Electric Coop Inc.....	0	83	0	0	83
PSI Energy Inc.....	879	15	11	1,017	1,922
South Central Power Co.....	18	20	0	0	38
Southern Indiana Gas & Elec Co.....	761	850	379	77	2,067
Toledo Edison Co.....	536	45	0	0	581
Wabash Valley Power Assn Inc.....	100	100	100	7,910	8,210
Wolverine Pwr Supply Coop Inc.....	0	61	0	0	61
<b>ECAR Total.....</b>	<b>6,505</b>	<b>2,592</b>	<b>4,168</b>	<b>9,658</b>	<b>22,923</b>
<b>ERCOT</b>					
Austin City of.....	2,137	332	383	0	2,852
Brazos Electric Power Coop Inc.....	86	0	0	80	166
Bryan City of.....	70	25	0	0	95
Central Power & Light Co.....	547	588	260	0	1,395
College Station City of.....	50	15	0	0	65
Greenville Electric Util Sys.....	6	2	1	0	9
Guadalupe Valley Elec Coop Inc.....	12	18	40	0	70
Houston Lighting & Power Co.....	0	0	447	0	447
Johnson County Elec Coop Assn.....	5	3	0	0	8
Lower Colorado River Authority.....	190	149	196	251	786
Magic Valley Electric Coop Inc.....	19	22	9	0	50
Medina Electric Coop Inc.....	12	0	3	12	27
San Bernard Electric Coop Inc.....	4	0	0	0	4
Texas Utilities Electric Co.....	1,798	2,000	320	5,130	9,248
Texas-New Mexico Power Co.....	0	0	0	484	484
Tri-County Electric Coop Inc.....	0	11	0	0	11
<b>ERCOT Total.....</b>	<b>4,936</b>	<b>3,165</b>	<b>1,659</b>	<b>5,957</b>	<b>15,717</b>
<b>MAAC</b>					
Allegheny Electric Coop Inc.....	233	0	0	0	233
Atlantic City Electric Co.....	2,219	285	329	67	2,900
Baltimore Gas & Electric Co.....	3,573	476	1,382	0	5,431
Bedford Rural Elec Coop Inc.....	14	26	4	0	44
Central Electric Coop Inc.....	3	53	0	0	56
Claverack Rural Elec Coop Inc.....	11	0	0	0	11
Delmarva Power & Light Co.....	416	1,821	842	177	3,256
Jersey Central Power&Light Co.....	3,566	3,691	282	1,482	9,021
Metropolitan Edison Co.....	331	0	0	347	678
Pennsylvania Power & Light Co.....	3,948	0	0	0	3,948
Potomac Electric Power Co.....	2,866	642	12	0	3,520
Public Service Electric&Gas Co.....	1,575	2,450	1,000	250	5,275
Somerset Rural Elec Coop Inc.....	80	15	3	0	98
Southern Maryland El Coop Inc.....	344	0	142	0	486
Southwest Central R E C Corp.....	12	13	0	0	25
Tri-County Rural Elec Coop Inc.....	15	5	0	0	20
UGI Utilities Inc.....	16	33	20	1	70
Valley Rural Electric Coop Inc.....	26	26	0	0	52
<b>MAAC Total.....</b>	<b>19,248</b>	<b>9,536</b>	<b>4,016</b>	<b>2,324</b>	<b>35,124</b>

See footnotes at end of table.

**Table 24. U.S. Electric Utility DSM Program Indirect Utility Costs by North American Electric Reliability Council Region and Hawaii by Cost Category, 1994**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Administrative	Marketing	Monitoring and Evaluation	Other <sup>1</sup>	Total Indirect Utility Cost
<b>MAIN</b>					
Boone Electric Coop.....	2	1	0	0	3
Central Illinois Light Co.....	152	121	0	0	273
Central Illinois Pub Serv Co.....	41	0	0	525	566
Coles-Moultrie Electric Coop.....	0	50	0	0	50
Columbia City of.....	102	168	7	0	277
Corn Belt Electric Coop Inc.....	8	10	0	0	18
Cuivre River Electric Coop Inc.....	0	1	2	0	3
Eastern Illini Electric Coop.....	10	20	10	0	40
Illinois Power Co.....	0	0	0	62	62
Madison Gas & Electric Co.....	1,316	366	61	0	1,743
Marshfield City of.....	3	7	10	5	25
Menard Electric Coop.....	1	6	3	0	10
Shelby Electric Coop Inc.....	4	2	3	0	9
Southwestern Electric Coop Inc.....	100	15	0	0	115
Springfield City of.....	57	108	30	0	195
Tri-County Electric Coop Inc.....	10	5	0	0	15
Wayne-White Counties Elec Coop.....	1	0	2	0	3
Wisconsin Electric Power Co.....	9,667	3,447	1,017	1,750	15,881
Wisconsin Power & Light Co.....	754	0	1,011	0	1,765
Wisconsin Public Power Inc Sys.....	231	154	0	0	385
Wisconsin Public Service Corp.....	0	5,444	0	0	5,444
<b>MAIN Total.....</b>	<b>12,459</b>	<b>9,925</b>	<b>2,156</b>	<b>2,342</b>	<b>26,882</b>
<b>MAPP(U.S.)</b>					
Ames City of.....	43	12	0	0	55
Anoka City of.....	1	0	0	0	1
Austin City of.....	25	40	3	0	68
Beatrice City of.....	5	1	0	0	6
Cass County Electric Coop Inc.....	4	41	4	0	49
Central Iowa Power Coop.....	430	574	289	143	1,436
Clark Electric Coop.....	6	0	0	0	6
Cornhusker Public Power Dist.....	0	3	0	0	3
Dawson County Public Pwr Dist.....	0	0	0	9	9
East River Elec Power Coop Inc.....	0	301	0	0	301
Fairmont Public Utilities Comm.....	2	0	0	0	2
Grant-Lafayette Electric Coop.....	26	22	10	0	58
Interstate Power Co.....	388	1,162	321	0	1,871
Iowa Lakes Electric Coop.....	25	300	20	0	345
IES Utilities Inc.....	680	1,774	619	714	3,787
Marshall City of.....	11	4	1	0	16
Midland Power Coop.....	11	11	5	0	27
Midwest Power Systems Inc.....	690	111	135	618	1,554
Minnesota Valley Electric Coop.....	36	94	33	0	163
Minnkota Power Coop Inc.....	50	100	0	0	150
Moorhead City of.....	80	20	0	0	100
Municipal Energy Agency of NE.....	7	3	2	0	12
MDU Resources Group Inc.....	206	392	0	0	598
Nebraska Public Power District.....	58	2,197	7	0	2,262
Nodak Electric Coop Inc.....	7	5	41	0	53
Northern States Power Co of MN.....	0	0	1,836	0	1,836
Northern States Power Co of WI.....	212	1,384	471	0	2,067
Northwest Iowa Power Coop.....	10	10	5	0	25
Oakdale Electric Coop.....	30	63	0	0	93
Otter Tail Power Co.....	0	3,663	0	0	3,663
People 's Coop Power Assn.....	0	34	0	0	34
Pierre City of.....	1	0	1	0	2
Rice Lake Utilities.....	12	0	0	0	12
Rochester Public Utilities.....	40	0	0	0	40
Spencer City of.....	2	6	1	10	19
Tri-County Electric Coop.....	47	26	0	0	73
Verendrye Electric Coop Inc.....	10	30	5	0	45
Vernon Electric Coop.....	4	56	0	0	60
Wild Rice Electric Coop Inc.....	33	67	0	0	100
<b>MAPP(U.S.) Total.....</b>	<b>3,192</b>	<b>12,506</b>	<b>3,809</b>	<b>1,494</b>	<b>21,001</b>

See footnotes at end of table.

**Table 24. U.S. Electric Utility DSM Program Indirect Utility Costs by North American Electric Reliability Council Region and Hawaii by Cost Category, 1994**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Administrative	Marketing	Monitoring and Evaluation	Other <sup>1</sup>	Total Indirect Utility Cost
<b>NPCC(U.S.)</b>					
Bangor Hydro-Electric Co.....	144	0	0	0	144
Blackstone Valley Electric Co.....	454	135	84	0	673
Boston Edison Co.....	9,755	964	3,033	71	13,823
Braintree Town of.....	20	3	0	0	23
Burlington City of.....	147	7	46	0	200
Cambridge Electric Light Co.....	47	0	111	0	158
Central Hudson Gas & Elec Corp.....	233	272	276	0	781
Central Maine Power Co.....	758	0	21	460	1,239
Central Vermont Pub Serv Corp.....	2,054	0	46	0	2,100
Citizens Utilities Co.....	848	0	103	0	951
Commonwealth Electric Co.....	269	0	511	0	780
Concord Electric Co.....	172	0	8	0	180
Connecticut Light & Power Co.....	861	0	1,691	135	2,687
Connecticut Valley Elec Co Inc.....	103	0	8	0	111
Consolidated Edison Co-NY Inc.....	3,202	858	5,318	6,087	15,465
Eastern Edison Co.....	870	321	246	0	1,437
Exeter & Hampton Electric Co.....	178	0	11	0	189
Granite State Electric Co.....	272	41	54	0	367
Green Mountain Power Corp.....	1,125	0	240	762	2,127
Hingham City of.....	0	3	0	0	3
Holyoke City of.....	8	0	0	0	8
Jamestown City of.....	95	0	0	0	95
Long Island Lighting Co.....	2,089	1,393	0	582	4,064
Maine Public Service Co.....	19	0	0	43	62
Massachusetts Electric Co.....	4,957	2,752	2,013	0	9,722
Montaup Electric Co.....	1,559	548	374	0	2,481
Narragansett Electric Co.....	1,431	277	653	0	2,361
New England Power Co.....	198	34	0	0	232
New York State Elec & Gas Corp.....	0	0	0	3	3
Niagara Mohawk Power Corp.....	10,720	0	2,052	0	12,772
Norwood City of.....	0	2	9	0	11
Orange & Rockland Utils Inc.....	778	291	227	0	1,296
Power Authority of State of NY.....	720	0	0	0	720
Public Service Co of NH.....	117	0	0	57	174
Rochester Gas & Electric Corp.....	0	0	477	35	512
Shrewsbury Town of.....	10	10	0	0	20
United Illuminating Co.....	340	141	767	0	1,248
Western Massachusetts Elec Co.....	565	0	830	200	1,595
<b>NPCC(U.S.) Total.....</b>	<b>45,118</b>	<b>8,052</b>	<b>19,209</b>	<b>8,435</b>	<b>80,814</b>
<b>SERC</b>					
Aiken Electric Coop Inc.....	52	22	0	14	88
Alabama Electric Coop Inc.....	105	295	43	0	443
Alabama Municipal Elec Auth.....	48	0	0	0	48
Alabama Power Co.....	926	3,611	175	0	4,712
Albemarle City of.....	20	5	5	0	30
Altamaha Electric Member Corp.....	1	1	1	0	3
Berkeley Electric Coop Inc.....	35	110	80	0	225
Black River Electric Coop Inc.....	30	5	0	0	35
Brunswick Electric Member Corp.....	24	79	39	0	142
Canochee Electric Member Corp.....	18	1	0	0	19
Carolina Power & Light Co.....	0	0	0	3,800	3,800
Carroll Electric Member Corp.....	12	12	6	0	30
Central Georgia El Member Corp.....	31	19	0	0	50
Choctawhatche Elec Coop Inc.....	103	30	0	0	133
Cobb Electric Membership Corp.....	185	405	0	0	590
Colquitt Electric Members Corp.....	15	345	0	0	360
Coweta-Fayette El Member Corp.....	132	269	0	0	401
Crescent Electric Member Corp.....	4	0	0	0	4
Davidson Electric Member Corp.....	0	25	0	0	25
Douglas City of.....	2	2	1	0	5
Duke Power Co.....	14,435	4,577	956	11,609	31,577
East Point City of.....	1	0	1	0	2
Fairfield Electric Coop Inc.....	10	48	0	0	58
Flint Electric Membership Corp.....	417	36	0	0	453
Florida Keys El Coop Assn Inc.....	10	1	0	0	11

See footnotes at end of table.



**Table 24. U.S. Electric Utility DSM Program Indirect Utility Costs by North American Electric Reliability Council Region and Hawaii by Cost Category, 1994**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Administrative	Marketing	Monitoring and Evaluation	Other <sup>1</sup>	Total Indirect Utility Cost
<b>SERC (Continued)</b>					
Florida Power & Light Co .....	11,547	0	0	0	11,547
Florida Power Corp .....	4,520	182	0	165	4,867
Gainesville Regional Utilities.....	50	45	0	0	95
Grady County Elec Member Corp.....	3	8	1	0	12
Greenville Utilities Comm.....	38	1	74	0	113
GreyStone Power Corp.....	0	4	0	245	249
Haywood Electric Member Corp .....	4	6	2	0	12
Jackson Electric Member Corp.....	16	86	23	0	125
Jacksonville Electric Auth.....	67	67	0	0	134
Jefferson Electric Member Corp.....	5	5	0	0	10
Jones-Onslow Elec Member Corp.....	40	70	0	0	110
Lakeland City of.....	129	13	0	0	142
Laurens Electric Coop Inc.....	1	1	0	0	2
Laurinburg City of.....	5	0	0	0	5
Lee County Electric Coop Inc.....	124	0	0	0	124
Leesburg City of.....	10	0	1	0	11
Manassas City of.....	54	18	36	0	108
Mecklenburg Electric Coop Inc.....	10	0	2	0	12
Mid-Carolina Electric Coop Inc.....	92	53	0	0	145
New Bern City of.....	50	15	0	0	65
New River Light & Power Co.....	2	1	1	0	4
North Carolina Eastern M P A.....	126	195	21	0	342
North Carolina Mun Power Agny.....	166	172	40	0	378
Northern Virginia Elec Coop.....	20	70	5	0	95
Orangeburg City of.....	0	0	0	10	10
Orlando Utilities Comm.....	689	421	0	0	1,110
Prince George Electric Coop.....	1	0	0	0	1
Rayle Electric Membership Corp.....	2	2	0	0	4
Reedy Creek Improvement Dist.....	48	10	10	0	68
Satilla Rural Elec Member Corp.....	1	2	1	0	4
Sawnee Electric Members Corp.....	18	15	30	0	63
Shenandoah Valley Elec Coop.....	39	22	0	0	61
Singing River Elec Power Assn.....	5	1	1	0	7
Snapping Shoals El Member Corp.....	0	34	0	251	285
South Carolina Electric&Gas Co.....	0	0	0	1,166	1,166
South Carolina Pub Serv Auth.....	744	0	0	0	744
Southside Electric Coop Inc.....	8	2	0	0	10
Sumter Electric Coop Inc.....	48	4	0	0	52
Tallahassee City of.....	71	285	0	0	356
Tampa Electric Co.....	402	0	0	0	402
Tennessee Valley Authority.....	0	0	0	54,000	54,000
Thomasville City of.....	0	0	0	45	45
Tri-County Elec Member Corp.....	15	2	2	0	19
Vero Beach City of.....	48	3	5	0	56
Virginia Electric & Power Co.....	687	4,353	595	221	5,856
Wake Electric Membership Corp.....	55	0	0	0	55
Walton Electric Member Corp.....	0	50	0	0	50
Washington Elec Member Corp.....	1	0	10	0	11
Wilson City of.....	25	5	5	0	35
York Electric Coop Inc.....	11	9	2	27	49
<b>SERC Total</b> .....	<b>36,613</b>	<b>16,130</b>	<b>2,174</b>	<b>71,553</b>	<b>126,470</b>
<b>SPP</b>					
Cajun Electric Power Coop Inc.....	98	400	0	0	498
Carroll Electric Coop Corp.....	4	0	6	0	10
Craighead Electric Coop Corp.....	29	20	48	0	97
First Electric Coop Corp.....	10	5	5	0	20
Golden Spread Elec Coop Inc.....	5	0	0	55	60
Independence City of.....	27	0	0	0	27
Kansas City City of.....	269	0	0	0	269
New Orleans Public Service Inc.....	179	437	0	0	616
Oklahoma Municipal Power Auth.....	17	17	17	0	51
Ozark Electric Coop Inc.....	1	0	0	0	1
Petit Jean Electric Coop Corp.....	5	0	25	0	30
Red River Valley Rrl Elec Assn.....	2	0	2	0	4
South Central Ark El Coop Inc.....	0	0	0	1	1

See footnotes at end of table.

**Table 24. U.S. Electric Utility DSM Program Indirect Utility Costs by North American Electric Reliability Council Region and Hawaii by Cost Category, 1994**  
(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Administrative	Marketing	Monitoring and Evaluation	Other <sup>1</sup>	Total Indirect Utility Cost
<b>SPP (Continued)</b>					
Southwestern Electric Power Co.....	285	227	70	0	582
Verdigris Valley Elec Coop Inc.....	5	0	12	0	17
White River Valley El Coop Inc.....	0	0	6	0	6
Woodruff Electric Coop Corp.....	0	0	10	0	10
<b>SPP Total.....</b>	<b>936</b>	<b>1,106</b>	<b>201</b>	<b>56</b>	<b>2,299</b>
<b>WSCC(U.S.)</b>					
Alameda City of.....	68	0	0	0	68
Anaheim City of.....	440	41	0	0	481
Arizona Public Service Co.....	1,160	1,054	0	0	2,214
Bonneville Power Admin.....	43,500	0	2,500	0	46,000
Bountiful City of.....	1	3	2	0	6
Colorado Springs City of.....	50	0	0	0	50
Dixie Escalante R E A Inc.....	4	0	0	0	4
El Paso Electric Co.....	289	0	140	112	541
Fort Collins City of.....	749	0	0	0	749
Imperial Irrigation District.....	0	37	0	0	37
La Plata Electric Assn Inc.....	5	2	0	0	7
Longmont City of.....	65	6	0	0	71
Los Angeles City of.....	917	967	814	0	2,698
Loveland City of.....	55	21	0	0	76
Mohave Electric Coop Inc.....	5	10	0	0	15
Montana Power Co.....	1,611	123	0	1,627	3,361
Navopache Electric Coop Inc.....	9	2	14	19	44
Nevada Power Co.....	569	0	0	0	569
Overton Power District No 5.....	20	4	2	0	26
Pacific Gas & Electric Co.....	3,500	0	10,303	0	13,803
PacifiCorp.....	3,807	438	439	2,497	7,181
Pasadena City of.....	68	22	0	0	90
Portland General Electric Co.....	0	0	256	0	256
Provo City Corp.....	11	1	1	0	13
Public Service Co of Colorado.....	0	95	1,450	0	1,545
Puget Sound Power & Light Co.....	189	0	800	0	989
Riverside City of.....	81	12	16	0	109
Roseville City of.....	22	3	0	0	25
Salt River Proj Ag I & P Dist.....	3,006	264	392	0	3,662
San Diego Gas & Electric Co.....	0	0	5,143	2,464	7,607
Santa Clara City of.....	3	0	0	0	3
Seattle City of.....	7,869	0	0	0	7,869
Sierra Pacific Power Co.....	19	0	21	174	214
Southern California Edison Co.....	0	0	18,148	7,843	25,991
Springfield City of.....	428	0	0	0	428
Sulphur Springs Valley E C Inc.....	5	12	0	0	17
Tacoma City of.....	813	0	559	0	1,372
United Power Inc.....	5	5	10	6	26
Vera Irrigation District # 15.....	38	0	0	0	38
Vernon City of.....	42	0	2	0	44
Washington Water Power Co.....	1,274	0	422	0	1,696
Yellowstone Vly Elec Coop Inc.....	4	16	2	0	22
<b>WSCC(U.S.) Total.....</b>	<b>70,701</b>	<b>3,138</b>	<b>41,436</b>	<b>14,742</b>	<b>130,017</b>
<b>Contiguous U.S.....</b>	<b>199,708</b>	<b>66,150</b>	<b>78,828</b>	<b>116,561</b>	<b>461,247</b>
<b>ASCC</b>					
Alaska Electric Light&Power Co.....	5	2	0	60	67
Golden Valley Elec Assn Inc.....	166	20	0	0	186
<b>ASCC Total.....</b>	<b>171</b>	<b>22</b>	<b>0</b>	<b>60</b>	<b>253</b>
<b>Hawaii</b>					
Hawaiian Electric Co Inc.....	71	16	11	0	98
<b>Hawaii Total.....</b>	<b>71</b>	<b>16</b>	<b>11</b>	<b>0</b>	<b>98</b>
<b>U.S. Total.....</b>	<b>199,950</b>	<b>66,188</b>	<b>78,839</b>	<b>116,621</b>	<b>461,598</b>

<sup>1</sup> Includes the indirect costs of demand-side management programs that cannot be meaningfully included in any of the other cost categories, including costs incurred in the research and development of demand-side management technologies.

Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.

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

# **Appendix A**

## **Technical Notes**

# Appendix A

## Technical Notes

### Source of Data

The *U.S. Electric Utility Demand-Side Management* report is prepared by the Coal and Electric Data and Renewables Division; Office of Coal, Nuclear, Electric and Alternate Fuels; Energy Information Administration (EIA); U.S. Department of Energy (DOE). Data published in the *U.S. Electric Utility Demand-Side Management* report are compiled from the Form EIA-861, "Annual Electric Utility Report," which is summarized below:

#### **Form EIA-861**

The Form EIA-861 is a mandatory census of electric utilities in the United States, its territories, and Puerto Rico. The Form EIA-861 data contained in this publication are for the United States only. The survey is used to collect information on power production and sales of electricity from approximately 3,200 electric utilities. The data collected are used to update the electric utility frame database maintained by the EIA. This database supports queries from the Executive Branch, Congress, other public agencies, and the general public. Summary data from the Form EIA-861 are also contained in the *Electric Power Annual Volume II; Electric Sales and Revenue; Financial Statistics of Major U.S. Investor-Owned Electric Utilities; Financial Statistics of Major U.S. Publicly Owned Electric Utilities; Annual Energy Outlook; Electric Trade in the United States, Annual Energy Review, Monthly Energy Review, and Electric Power Monthly*. These reports present aggregate totals for electric utilities on national, State, and NERC Region levels and by ownership class and consumer class of service.

Demand-side management (DSM) data are collected on Schedule V, "Demand-Side Management Information," of Form EIA-861. Collected are data on DSM costs, annual and incremental effects for energy savings and for actual and potential peak load reductions. Also collected is information on the end use and type of energy efficiency programs. Demand-side management data collected on Form EIA-861 are estimated by electric utilities based on engineering data, statistical analysis, or other estimation methods. The form was revised for the 1993 data collection to collect information on estimation methodologies used

by utilities to derive DSM data and the methods used for verification of the estimated energy effects.

EIA collects information on DSM activities from all utilities with DSM programs. DSM data are aggregated at the NERC region and consumer sector levels. Utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours report incremental peak load reductions and energy effects for the reporting year, annual peak load reductions and energy effects for the reporting year and first- and fifth-forecast years, itemized direct and indirect utility costs and nonutility cost attributable to DSM programs for all 3 years, end use and type of energy efficiency programs, and evaluation and verification data. Annual and incremental effects for the reporting year are reported by consumer sector (residential, commercial, industrial, other) for each program category (energy efficiency, direct load control, interruptible load, other load management, other DSM programs, and load building). Forecast peak load reductions and energy effects are reported by program category with all consumer sectors combined. Utilities with sales to ultimate consumers and sales for resale less than 120,000 megawatthours report selected items: incremental peak load reductions and energy effects, total utility cost, total nonutility cost, and total DSM cost for the reporting year and first- and fifth-forecast years, end use and type of energy efficiency programs, and evaluation and verification data. In years prior to 1992, utilities with sales less than 120,000 megawatthours did not report on DSM activities.

**Instrument and Design History.** The Form EIA-861 was implemented in January 1985 to collect data as of year-end 1984. Schedule V, "Demand-Side Management Information," was added to the survey in 1990 to collect data for year-end 1989. Schedule V was revised for the 1991 collection and again for the 1993 year-end collection. The Federal Administration Act of 1974 (Public Law 93-275) and the Energy Policy Act of 1992 define the legislative authority to collect these data.

**Data Processing.** The Form EIA-861 is mailed to the respondents in January to collect data as of the end of the preceding calendar year. The completed forms are to be returned to the EIA by April 30. Internal edit checks are performed to verify that current data are comparable to data reported the previous year. Respondents are telephoned to obtain clarification of reported data and to obtain missing data.

## ***Voltage Reduction***

Voltage reduction, though not considered a DSM program, may be used by utilities to reduce load since power provided to the consumers is a function of both voltage and current. Voltage reduction is mainly used in emergency situations, although some utilities use it to reduce demand during peak load periods under normal operating conditions.

During normal operating conditions, utilities provide service to retail consumers within a range of voltages (e.g., 120v  $\pm$  5 percent). States generally promulgate rules that describe the service utilities must provide to customers, including voltage levels. During emergency situations, utilities are allowed to go beyond the normal operating range to a limited extent. Most systems that use voltage reduction during emergencies limit the variation to a maximum of 5 percent outside of normal operating limits, but some go as high as 8 percent. The reduction applied may be any level up to the maximum, depending on the circumstances. Although the emergency voltage reductions go outside of the normal ranges, they are implemented for short periods of time (as little as 10 minutes to an hour). Voltage reduction is effected by reducing the voltage at customer-level substations (distribution system), either manually or remotely, if the utility system is fully automated. A voltage reduction can be made for one area of a utility's service territory, or for an entire utility system.

The amount of power that is saved when voltage is reduced depends on many factors including the types of load and the relative proportions of those loads at the time the voltage is reduced. Since load mix and level varies by season and time of day, the impacts of voltage reduction will vary accordingly. The potential peak load savings that may be achieved under a set of specific circumstances for a 5 percent reduction in voltage, can range from negligible to 5 percent of summer peak load, with most savings being less than 3 percent of winter or summer peak load.

Some utilities also use the term "voltage reduction" to include improvements in their distribution system that allow them to operate at lower nominal voltages. By investing in improved voltage regulators, line reconductoring, and other distribution equipment, utilities can lower substation operating voltage and still provide customers with adequate voltage, thereby saving energy. When the savings are adequate to justify the investment, utilities may implement such a program and refer to it as voltage reduction or conservation voltage reduction.

## **Quality of Data**

The Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF) is responsible for routine data improvement and quality assurance activities. All operations in this office are done in accordance with formal standards established by the EIA. Data improvement efforts include verification of data-keyed input by automatic computerized methods, editing by subject matter specialists, and follow up on nonrespondents. The CNEAF office supports the quality assurance efforts of the data collectors by providing advisory reviews of the structure of information requirements and of proposed designs for new and revised data collection forms and systems. Once implemented, the actual performance of working data collection systems is also validated. 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 a mandatory EIA data form. Before invoking the law, the EIA tries to obtain the required information by encouraging cooperation of nonrespondents.

Completed forms received by the CNEAF office are sorted, screened for completeness of reported information, and keyed onto computer tapes for storage and transfer to random access databases for computer processing. The information coded on the computer tapes is manually spot-checked against the forms to certify accuracy of the tapes. To ensure the quality standards established by the EIA, formulas that use the past history of data values in the database have been designed and implemented to check data input for errors automatically. Data values that fall outside the ranges prescribed in the formulas are verified by telephoning respondents to resolve any discrepancies.

### ***Data Editing System***

Data from the surveys are edited using automated systems. The edits include both deterministic checks, in which records are checked for the presence of required fields and their validity; and statistical checks, in which estimation techniques are used to validate data according to their behavior in the past and in comparison to other current fields.

### ***Confidentiality of the Data***

The data collected on the Form EIA-861 used for input to this report are not confidential.

## **Rounding Rules for Data**

Given a number with r digits to the left of the decimal and d+t digits in the fraction part, with d being the place to which the number is to be rounded and t being the remaining digits which will be truncated, this number is rounded to r+d digits by adding 5 to the (r+d+1)th digit when the number is positive or by subtracting 5 when the number is negative. The t digits are then truncated at the (r+d+1)th digit. The symbol for a rounded number truncated to zero is (\*).

## **Percent Difference Calculation**

The following formula is used to calculate percent differences.

$$\text{Percent Difference} = \left( \frac{x(t_2) - x(t_1)}{x(t_1)} \right) \times 100,$$

where  $x(t_1)$  and  $x(t_2)$  denote the quantity at year  $t_1$  and subsequent year  $t_2$ .

## **CNEAF Data Revision and Policy**

The Office of Coal, Nuclear, Electric and Alternate Fuels has adopted the following policy with respect to the revision and correction of recurrent data in energy publications:

1. Annual survey data collected by this office are published either as preliminary or final when first appearing in a data report. Data initially released as preliminary will be so noted in the report. These data will be revised, if necessary, and declared final in the next publication of the data.
2. The magnitude of changes due to revisions experienced in the past will be included in the data reports, so that the reader can assess the accuracy of the data.
3. After data are published as final, corrections will be made only in the event of a greater than one percent difference at the national level. Corrections for differences that are less than the before-mentioned threshold are left to the discretion of the Office Director.

The *U.S. Electric Utility Demand-Side Management* (DSM) report presents the most current annual data available to the EIA. The statistics may differ from those published previously in EIA publications due to corrections, revisions, or other adjustments to the data subsequent to its original release. The status (preliminary versus final) of DSM data published by EIA follows:

- **U.S. Electric Utility Demand-Side Management**

Data on demand-side management from the Form EIA-861 for 1994 and previous years are final. A comparison of preliminary versus final data at the national level for 1994 will be provided in the *Electric Power Annual Volume II 1995*.

- **Electric Power Annual Volume II 1994**

The chapter in the *Electric Power Annual Volume II* for DSM contains data on demand-side management from the Form EIA-861 for 1994 that are preliminary. Data for previous years are final.

## **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.

## **Acronyms and Abbreviations**

CNEAF - Office of Coal, Nuclear, Electric and Alternate Fuels

DOE - Department of Energy

DSM - Demand-Side Management

EIA - Energy Information Administration

EPACT - Energy Policy Act of 1992

GWh - Gigawatthour

HVAC - Heating, Ventilation, and Air Conditioning

IRP - Integrated Resource Planning

kW - Kilowatt

kWh - Kilowatthour

MW - Megawatt

MWh - Megawatthour

NERC - North American Electric Reliability Council

The NERC regions are:

ASCC - Alaskan 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

NTIS - National Technical Information Service

TOU - Time-of-Use

## Obtaining Copies of Data

The data are available on machine-readable tapes. Tapes may be purchased by using Visa, MasterCard, or American Express cards as well as money orders or checks payable to the National Technical Information Service (NTIS). Purchasers may also use NTIS and Government Printing Office depository accounts. To place an order, contact:

National Technical Information Service (NTIS)  
Office of Data Base Services  
U.S. Department of Commerce  
5285 Port Royal Road  
Springfield, Virginia 22161  
(703) 487-4650

The data for 1992, 1993, and 1994 filed on the Form EIA-861 are also available on the Internet in com-

pressed format through FTP at ftp.fedworld.gov, or through use of a world-wide-web browser such as Mosaic at www.fedworld.gov, in the /pub/energy sub-directory.

The database may also be purchased on personal computer diskettes (3 1/2 or 5 1/4) using Mastercard or Visa as well as money order or check payable to the U.S. Department of Energy. To place an order, contact:

Office of Scientific and Technical Information  
U.S. Department of Energy  
Request Services  
P.O. Box 62  
Oak Ridge, Tennessee 37831  
(615) 576-8401 or Fax (615) 576-2865

**Table A1. Unit-of-Measure Equivalents**

Unit	Equivalent
Kilowatt (kW).....	1,000 (One Thousand) Watts
Megawatt (MW).....	1,000,000 (One Million) Watts
Gigawatt (GW).....	1,000,000,000 (One Billion) Watts
Terawatt (TW).....	1,000,000,000,000 (One Trillion) Watts
Gigawatt.....	1,000,000 (One Million) Kilowatts
Thousand Gigawatts.....	1,000,000,000 (One Billion) Kilowatts
Kilowatthours (kWh).....	1,000 (One Thousand) Watthours
Megawatthours (MWh).....	1,000,000 (One Million) Watthours
Gigawatthours (GWh).....	1,000,000,000 (One Billion) Watthours
Terawatthours (TWh).....	1,000,000,000,000 (One Trillion) Watthours
Gigawatthours.....	1,000,000 (One Million) Kilowatthours
Thousand Gigawatthours.....	1,000,000,000 (One Billion) Kilowatthours

Source: Energy Information Administration, Coal and Electric Data and Renewables Division.

# **Appendix B**

## **Glossary**



# Appendix B

## Glossary

**Actual Peak Load Reduction:** The actual reduction in annual peak load (measured in kilowatts) achieved by consumers that participate in a utility DSM program. It reflects the real changes in the demand for electricity resulting from a utility DSM program that is in effect at the same time the utility experiences its annual peak load, as opposed to the installed peak load reduction capability (i.e., Potential Peak Load Reduction). It should account for the regular cycling of energy efficient units during the period of annual peak load.

**Annual Effects:** The total effects in energy use (measured in megawatthours) and peak load (measured in kilowatts) caused by all participants in the DSM programs that are in effect during a given year. It includes new and existing participants in existing programs (those implemented in prior years that are in place during the given year) and all participants in new programs (those implemented during the given year). The effects of new participants in existing programs and all participants in new programs should be based on their start-up dates (i.e., if participants enter a program in July, only the effects from July to December should be reported). If start-up dates are unknown and cannot be reasonably estimated, the effects can be annualized (i.e., assume the participants were initiated into the program on January 1 of the given year). The Annual Effects should consider the useful life of efficiency measures, by accounting for building demolition, equipment degradation and attrition.

**Appliances:** Energy Efficiency program promotion of high efficiency appliances such as dishwashers, ranges, refrigerators, and freezers in the residential, commercial, and industrial sectors. Includes programs aimed at improving the efficiency of refrigeration equipment and electrical cooking equipment, including replacement. It also includes the promotion and identification of high efficiency appliances in retail stores using a labeling system different from the Federally-mandated Energy Guide. Energy Efficiency program promotion of high efficiency cooling and heating appliances are included under Cooling System and Heating System, respectively.

**Asset:** An economic resource, tangible or intangible, which is expected to provide benefits to a business.

**Average Revenue per Kilowatthour:** The average revenue per kilowatthour of electricity sold by sector (residential, commercial, industrial, or other) and

geographic area (State, Census division, and National), is calculated by dividing the total monthly revenue by the corresponding total monthly sales for each sector and geographic area.

**Baseload:** The minimum amount of electric power delivered or required over a given period of time at a steady rate.

**Baseload Capacity:** The generating equipment normally operated to serve loads on an around-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.

**Capacity (Purchased):** The amount of energy and capacity available for purchase from outside the system.

**Capacity Charge:** An element in a two-part pricing method used in capacity transactions (energy charge is the other element). The capacity charge, sometimes called Demand Charge, is assessed on the amount of capacity being purchased.

**Census Divisions:** The nine geographic divisions of the United States established by the Bureau of the Census, U.S. Department of Commerce, for the purpose of statistical analysis. The boundaries of Census divisions coincide with State boundaries. The Pacific Division is subdivided into the Pacific Contiguous and Pacific Noncontiguous areas.

**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. To receive status as a qualifying facility (QF) under the Public Utility Regulatory Policies Act (PURPA), the facility must produce electric energy and "another form of useful thermal energy through the sequential use of energy," and meet certain ownership, operating, and efficiency criteria established by the Federal Energy Regulatory Commission (FERC). (See the code of Federal Regulations, Title 18, Part 292.)

**Coincidental Peak Load:** The sum of two or more peak loads that occur in the same time interval.

**Commercial:** The commercial sector is generally defined as nonmanufacturing business establishments, including hotels, motels, restaurants, wholesale businesses, retail stores, and health, social, and educational institutions. The utility may classify commercial service as all consumers whose demand or annual use exceeds some specified limit. The limit may be set by the utility based on the rate schedule of the utility.

**Commercial Operation:** Commercial operation begins when control of the loading of the generator is turned over to the system dispatcher.

**Conservation and Other DSM:** This Demand-Side Management category represents the amount of consumer peak load reduction at the time of system peak due to utility programs that reduce consumer load during many hours of the year. Examples include utility rebate and shared savings activities for the installation of energy efficient appliances, lighting and electrical machinery, and weatherization materials. In addition, this category includes all other Demand-Side Management activities, such as thermal storage, time-of-use rates, fuel substitution, measurement and evaluation, and any other utility-administered Demand-Side Management activity designed to reduce demand and/or electricity use.

**Cooling System:** Energy Efficiency program promotion aimed at improving the efficiency of the cooling delivery system, including replacement, in the residential, commercial, or industrial sectors.

**Cooperative Electric Utility:** An electric utility legally established to be owned by and operated for the benefit of those using its service. 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 Federal income tax laws. Most electric cooperatives have been initially financed by the Rural Electrification Administration, U.S. Department of Agriculture.

**Cost:** The amount paid to acquire resources, such as plant and equipment, fuel, or labor services.

**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-Side Management:** The planning, implementation, and monitoring of utility activities designed to encourage consumers to modify patterns of electricity usage, including the timing and level of electricity demand. It refers only to energy and load-shape modifying activities that are undertaken in response to utility-administered programs. It does not refer to energy and load-shape changes arising from the normal operation of the marketplace or from government-mandated energy-efficiency standards. Demand-Side Management (DSM) covers the com-

plete range of load-shape objectives, including strategic conservation and load management, as well as strategic load growth.

**Demand-Side Management Cost:** The cost incurred by the utility to achieve the capacity and energy savings from the Demand-Side Management Program. Costs (expenditures) incurred by consumers or third parties are to be excluded. The costs are to be reported in nominal dollars in the year in which they are incurred, regardless of when the savings occur. Program costs include expensed items incurred to implement the program, incentive payments provided to consumers to install Demand-Side Management measures, and annual operation and maintenance expenses incurred during the year. Utility costs that are general, administrative, or not specific to a particular Demand-Side Management category are to be included in "other" costs.

**Direct Load Control:** Refers to program activities that can interrupt consumer load at the time of annual peak load by direct control of the utility system operator by interrupting power supply to individual appliances or equipment on consumer premises. This type of control usually involves residential consumers. Direct Load Control excludes Interruptible Load and Other Load Management effects. (Direct Load Control, as defined here, is synonymous with Direct Load Control Management reported to the North American Electric Reliability Council on the voluntary Office of Energy Emergency Operations Form OE-411, "Coordinated Regional Bulk Power Supply Program Report," with the exception that annual peak load effects are reported here and seasonal (i.e., summer and winter) peak load effects are reported on the OE-411.)

**Direct Utility Cost:** A utility cost that is identified with one of the DSM program categories (i.e., Energy Efficiency, Direct Load Control, Interruptible Load, Other Load Management, Other DSM Programs, Load Building).

**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 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 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 (PURPA) are not considered electric utilities.

**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 Charge:** That portion of the charge for electric service based upon the electric energy (kWh) consumed or billed.

**Energy Deliveries:** Energy generated by one electric utility system and delivered to another system through one or more transmission lines.

**Energy Effects:** The changes in aggregate electricity use (measured in megawatthours) for customers that participate in a utility DSM program. Energy Effects should represent changes at the consumer meter (i.e. exclude transmission and distribution effects) and reflect only activities that are undertaken specifically in response to utility-administered programs, including those activities implemented by third parties under contract to the utility. To the extent possible, Energy Effects should exclude non-program related effects such as changes in energy usage attributable to nonparticipants, government-mandated energy-efficiency standards that legislate improvements in building and appliance energy usage, changes in consumer behavior that result in greater energy use after initiation in a DSM program, the natural operations of the marketplace, and weather and business-cycle adjustments.

**Energy Efficiency:** Refers to programs that are aimed at reducing the energy used by specific end-use devices and systems, typically without affecting the services provided. These programs reduce overall electricity consumption (reported in megawatthours), often without explicit consideration for the timing of program-induced savings. Such savings are generally achieved by substituting technically more advanced equipment to produce the same level of end-use services (e.g., lighting, heating, motor drive) with less electricity. Examples include high-efficiency appliances, efficient lighting programs, high-efficiency heating, ventilating and air conditioning (HVAC) systems or control modifications, efficient building design, advanced electric motor drives, and heat recovery systems.

**Energy Receipts:** Energy generated by one electric utility system and received by another system through one or more transmission lines.

**Energy Source:** The primary source that provides the 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.

**Expenditure:** The incurrence of a liability to obtain an asset or service.

**Facility:** An existing or planned location or site at which prime movers, electric generators, and/or equipment for converting mechanical, chemical, and/or nuclear energy into electric energy are situated, or will be situated. A facility may contain more than one generator of either the same or different prime mover type. For a cogenerator, the facility includes the industrial or commercial process.

**Federal Energy Regulatory Commission (FERC):** A quasi-independent regulatory agency within the Department of Energy having jurisdiction over interstate electricity sales, wholesale electric rates, hydro-electric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification.

**Federal Power Commission:** The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission (FPC) 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. The FPC was abolished on September 20, 1977, when the Department of Energy was created. The functions of the FPC were divided between the Department of Energy and the Federal Energy Regulatory Commission.

**FERC:** The Federal Energy Regulatory Commission.

**Firm Power:** Power or power-producing capacity intended to be available at all times during the period covered by a guaranteed commitment to deliver, even under adverse conditions.

**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 due to unanticipated breakdown.

**Generating Unit:** Any combination of physically connected generator(s), reactor(s), boiler(s), combustion turbine(s), or other prime mover(s) operated together to produce electric power.

**Generation (Electricity):** The process of producing electric energy by transforming other forms of energy; also, the amount of electric energy produced, expressed in watthours (Wh).

**Gross Generation:** The total amount of electric energy produced by the generating units at a generating station or stations, measured at the generator terminals.

**Net Generation:** Gross generation less the electric energy consumed at the generating station for station use.

**Generator:** A machine that converts mechanical energy into electrical energy.

**Generator Nameplate Capacity:** The full-load continuous rating of a generator, prime mover, or other electric power production equipment under specific conditions as designated by the manufacturer. Installed generator nameplate rating is usually indicated on a nameplate physically attached to the generator.

**Grid:** The layout of an electrical distribution system.

**Gross Generation:** The total amount of electric energy produced by a generating facility, as measured at the generator terminals.

**Heating System:** Energy Efficiency program promotion aimed at improving the efficiency of the heating delivery system, including replacement, in the residential, commercial, or industrial sectors.

**Incremental Effects:** The annual effects in energy use (measured in megawatthours) and peak load (measured in kilowatts) caused by new participants in existing DSM programs and all participants in new DSM programs during a given year. Reported Incremental Effects should be annualized to indicate the program effects that would have occurred had these participants been initiated into the program on January 1 of the given year. Incremental effects are not simply the Annual Effects of a given year minus the Annual Effects of the prior year, since these net effects would fail to account for program attrition, degradation, demolition, and participant dropouts.

**Indirect Utility Cost:** A utility cost that may not be meaningfully identified with any particular DSM program category. Indirect costs could be attributable to one of several accounting cost categories (i.e., Administrative, Marketing, Monitoring & Evaluation, Utility-Earned Incentives, Other). Accounting costs that are known DSM program costs should not be reported under Indirect Utility Cost, rather those costs should be reported as Direct Utility Costs under the appropriate DSM program category.

**Industrial:** The industrial sector is generally defined as manufacturing, construction, mining agriculture, fishing and forestry establishments (Standard Industrial Classification (SIC) codes 01-39). The utility may classify industrial service using the SIC codes, or based on demand or annual usage exceeding some specified limit. The limit may be set by the utility based on the rate schedule of the utility.

**Interruptible Load:** Refers to program activities that, in accordance with contractual arrangements, can interrupt consumer load at times of seasonal peak load by direct control of the utility system operator or by action of the consumer at the direct request of the system operator. It usually involves commercial and industrial consumers. In some instances the load reduction may be affected by direct action of the system operator (remote tripping) after notice to the consumer in accordance with contractual provisions. For example, loads that can be interrupted to fulfill planning or operation reserve requirements should be reported as Interruptible Load. Interruptible Load as

defined here excludes Direct Load Control and Other Load Management. (Interruptible Load, as reported here, is synonymous with Interruptible Demand reported to the North American Electric Reliability Council on the voluntary Office of Energy Emergency Operations Form OE-411, "Coordinated Regional Bulk Power Supply Program Report," with the exception that annual peak load effects are reported on the Form EIA-861 and seasonal (i.e., summer and winter) peak load effects are reported on the OE-411).

**Kilowatt (kW):** One thousand watts.

**Kilowatthour (kWh):** One thousand watthours.

**Liability:** An amount payable in dollars or by future services to be rendered.

**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 consumers.

**Load Building:** Refers to programs that are aimed at increasing the usage of existing electric equipment or the addition of electric equipment. Examples include industrial technologies such as induction heating and melting, direct arc furnaces and infrared drying; cooking for commercial establishments; and heat pumps for residences. Load Building should include programs that promote electric fuel substitution. Load Building effects should be reported as a negative number, shown with a minus sign.

**Marketing Cost:** Expenses directly associated with the preparation and implementation of the strategies designed to encourage participation in a DSM program. The category excludes general market and load research costs.

**Monitoring & Evaluation Cost:** Expenditures associated with the planning, collection, and analysis of data used to assess program operation and effects. It includes the activities such as load metering, customer surveys, new technology testing, and program evaluations that are intended to establish or improve the ability to monitor and evaluate the impacts of DSM programs, collectively or individually.

**Maximum Demand:** The greatest of all demands of the load that has occurred within a specified period of time.

**Megawatt (MW):** One million watts.

**Megawatthour (MWh):** One million watthours.

**Net Capability:** The maximum load-carrying ability of the equipment, exclusive of station use, under specified conditions for a given time interval, independent of the characteristics of the load. (Capability is determined by design characteristics, physical conditions, adequacy of prime mover, energy supply, and operating limitations such as cooling and circulating water supply and temperature, headwater and tailwater elevations, and electrical use.)

**Net Generation:** Gross generation minus plant use from all electric utility owned plants. The energy required for pumping at a pumped-storage plant is regarded as plant use and must be deducted from the gross generation.

**Net Summer Capability:** The steady hourly output, which generating equipment is expected to supply to system load exclusive of auxiliary power, as demonstrated by tests at the time of summer peak load.

**Net Winter Capability:** The steady hourly output which generating equipment is expected to supply to system load exclusive of auxiliary power, as demonstrated by tests at the time of winter peak load.

**New Construction:** Energy-efficiency program promotion to encourage the building of new homes, buildings, and plants to exceed standard government-mandated energy efficiency codes; it may include major renovations of existing facilities.

**Noncoincidental 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.

**North American Electric Reliability Council (NERC):** A council formed in 1968 by the electric utility industry to promote the reliability and adequacy of bulk power supply in the electric utility systems of North America. NERC consists of ten regional reliability councils and encompasses essentially all the power regions of the contiguous United States, Canada, and Mexico. The NERC Regions are:

ASCC - Alaskan 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

**Other Cost:** A residual category to capture the Indirect Costs of DSM programs that cannot be meaningfully included in any of the other cost categories listed and defined herein. Included are costs such as those incurred in the research and development of DSM technologies.

**Other DSM Programs:** A residual category to capture the effects of DSM programs that cannot be meaningfully included in any of the program categories listed and defined herein. The energy effects attributable to this category should be the net effects of all the residual programs. Programs that promote

consumer's substitution of electricity by other energy types should be included in Other DSM Programs. Also, self-generation should be included in Other DSM Programs to the extent that it is not accounted for as backup generation in Other Load Management or Interruptible Load categories.

**Other Incentives:** Energy Efficiency programs that offer cash or noncash awards to electric energy efficiency deliverers, such as appliance and equipment dealers, building contractors, and architectural and engineering firms, that encourage consumer participation in a DSM program and adoption of recommended measures.

**Other Load Management:** Refers to programs other than Direct Load Control and Interruptible Load that limit or shift peak load from on-peak to off-peak time periods. It includes technologies that primarily shift all or part of a load from one time-of-day to another and secondarily may have an impact on energy consumption. Examples include space heating and water heating storage systems, cool storage systems, and load limiting devices in energy management systems. This category also includes programs that aggressively promote time-of-use (TOU) rates and other innovative rates such as real time pricing. These rates are intended to reduce consumer bills and shift hours of operation of equipment from on-peak to off-peak periods through the application of time-differentiated rates.

**Outage:** The period during which a generating unit, transmission line, or other facility is out of service.

**Peak Demand:** The maximum load during a specified period of time.

**Peaking Capacity:** Capacity of generating equipment normally reserved for operation 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 an around-the-clock basis.

**Percent Difference:** The relative change in a quantity over a specified time period. It is calculated as follows: the current value has the previous value subtracted from it; this new number is divided by the absolute value of the previous value; then this new number is multiplied by 100.

**Planned Generator:** A proposal by a company to install electric generating equipment at an existing or planned facility or site. The proposal is based on the owner having obtained (1) all environmental and regulatory approvals, (2) a signed contract for the electric energy, or (3) financial closure for the facility.

**Potential Peak Load Reduction:** The amount of annual peak load reduction capability (measured in kilowatts) that can be deployed from Direct Load Control, Interruptible Load, Other Load Management, and Other DSM Program activities. It represents the load that can be reduced either by the direct control of the utility system operator or by the consumer in response to a utility request to curtail load. It reflects

the installed load reduction capability, as opposed to the Actual Peak Reduction achieved by participants, during the time of annual system peak load.

**Power:** The rate at which energy is transferred. Electrical energy is usually measured in watts. Also used for a measurement of capacity.

**Power Pool:** An association of two or more interconnected electric systems having an agreement to coordinate operations and planning for improved reliability and efficiencies.

**Price:** The amount of money or consideration-in-kind for which a service is bought, sold, or offered for sale.

**Process Heating:** Energy Efficiency program promotion of increased electric energy efficiency applications in industrial process heating.

**Profit:** The income remaining after all business expenses are paid.

**Public Street and Highway Lighting:** Public street and highway lighting includes electricity supplied and services rendered for the purposes of lighting streets, highways, parks, and other public places; or for traffic or other signal system service, for municipalities, or other divisions or agencies of State or Federal governments.

**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.

**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.

**Regulation:** The governmental function of controlling or directing economic entities through the process of rulemaking and adjudication.

**Reserve Margin (Operating):** The amount of unused available capability of an electric power system at peak load for a utility system as a percentage of total capability.

**Residential:** The residential sector is defined as private household establishments which 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.

**Retail:** Sales covering electrical energy supplied for residential, commercial, and industrial end-use purposes. Other small classes, such as agriculture and street lighting, also are included in this category.

**Revenue:** The total amount of money received by a firm from sales of its products and/or services, gains from the sales or exchange of assets, interest and dividends earned on investments, and other increases in the owner's equity except those arising from capital adjustments.

**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. Other sales include public street and highway lighting, other sales to public authorities and railways, and interdepartmental sales.

**Sales for Resale:** Energy supplied to other electric utilities, cooperatives, municipalities, and Federal and State electric agencies for resale to ultimate consumers.

**Standard Industrial Classification (SIC):** A set of codes developed by the Office of Management and Budget, which categorizes business into groups with similar economic activities.

**Standby Facility:** A facility that supports a utility system and is generally running under no-load. It is available to replace or supplement a facility normally in service.

**Standby Service:** Support service that is available, as needed, to supplement a consumer, a utility system, or to another utility if a schedule or an agreement authorizes the transaction. The service is not regularly used.

**System (Electric):** Physically connected generation, transmission, and distribution facilities operated as an integrated unit under one central management, or operating supervision.

**Total DSM Cost:** Refers to the sum of total utility cost and nonutility cost.

**Total DSM Programs:** Refers to the total net effects of all the utility's DSM programs. For the purpose of this survey, it is the sum of the effects for Energy Efficiency, Direct Load Control, Interruptible Load, Other Load Management, Other DSM Programs, and Load Building. Net growth in energy or load effects should be reported as a negative number, shown with a minus sign.

**Total Nonutility Cost:** Refers to total cash expenditures incurred by consumers and trade allies that are associated with participation in a DSM program, but that are not reimbursed by the utility. The nonutility expenditures should include only those additional costs necessary to purchase or install an efficient measure relative to a less efficient one. Costs are to

be reported in nominal dollars in the year in which they are incurred, regardless of when the actual effects occur. To the extent possible, respondents are asked to provide the best estimate of nonutility costs if actual costs are unavailable.

**Total Utility Cost:** Refers to the sum of the total Direct and Indirect Utility Costs for the year. Utility costs should reflect the total cash expenditures for the year, reported in nominal dollars, that flowed out to support DSM programs. They should be reported in the year they are incurred, regardless of when the actual effects occur.

**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 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.

**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.

**Utility-Earned Incentives:** Costs in the form of incentives paid to the utility for achievement in consumer participation in DSM programs. These financial incentives are intended to influence the utility's consideration of DSM as a resource option by addressing cost recovery, lost revenue, and profitability.

**Voltage Reduction:** Any intentional reduction of system voltage by 3 percent or greater for reasons of maintaining the continuity of service of the bulk electric power supply system.

**Water Heating:** Energy Efficiency program promotion to increase efficiency in water heating, including low-flow shower heads and water heater insulation wraps. Could be applicable to residential, commercial, or industrial consumer sectors.

**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.

**Watthour (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.

**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.

## **Energy Information Administration Consumption Surveys:**

The Energy Information Administration (EIA) also conducts consumption surveys that provide detailed information on how different consumers use energy. In recent surveys, DSM data has been collected as part of the data collection for three EIA consumption surveys: the Residential Energy Consumption Survey, the Commercial Buildings Energy Consumption Survey, and the Manufacturing Energy Consumption Survey. The following provides a brief description of each of these surveys.

**Residential Energy Consumption Survey (RECS):** Since 1978, EIA has collected data from U.S. households about how they use energy and billing data from their energy suppliers about how much energy they use. In the ninth RECS undertaken in 1993, over 7,000 households were surveyed and the results are extrapolated to 97 million households. The triennial survey collects data on housing characteristics, energy consumption and expenditures, stock of energy-using appliances, and energy-related behavior.

Questions about household participation in DSM programs were asked in the 1990 and 1993 RECS. Data can be found in *Housing Characteristics 1990* (DOE/EIA-0314(90)), *Household Energy Consumption and Expenditures 1990* (DOE/EIA-0321(90)), and *Housing Characteristics 1993* (tables available in November 1994 and report available in spring 1995). The data show participation by type of DSM program in both surveys. Additionally, the 1993 survey shows household perceptions of the availability of DSM programs.

For further information concerning the RECS DSM data or the RECS in general, please contact Robert Latta, RECS Manager, at (202) 586-1385, FAX at (202) 586-0018, or Internet E-mail [rlatta@eia.doe.gov](mailto:rlatta@eia.doe.gov).

**Manufacturing Energy Consumption Survey (MECS):** The MECS was first conducted for 1985 and presents data representing all but the smallest manufacturing establishments. It is a triennial survey that collects data on energy consumption and related issues in manufacturing establishments. The 1991 MECS presents separate estimates for all 20 major industrial groups from the manufacturing sector as defined by the Standard Industrial Classification (SIC) Codes. Within these major groups, separate estimates are presented for 42 industries and industry groups.

New to the 1991 version of the MECS are data on energy efficiency activities and DSM in particular. The data tables are available now in electronic form on EPUBS and in a forthcoming publication. The tables present participation by SIC Code, type of program, and whether electric utilities are involved. Due to the sample design, data must be presented in terms of energy consumption rather than counts of establishments. In future years, both types of measures are expected to be available.

For further information concerning DSM data or any aspect of the MECS, please contact Mark Shipper, MECS Survey Manager, at (202) 586-1136, FAX at (202) 586-0018, or Internet E-mail [mshipper@eia.doe.gov](mailto:mshipper@eia.doe.gov).

**Commercial Buildings Energy Consumption Survey (CBECS):** Since 1979, EIA has collected data on the physical and operating characteristics that affect energy use in U.S. commercial buildings. Billing data containing energy consumption and expenditures are collected from the energy suppliers to these buildings. In the fifth CBECS undertaken in 1992, both the building respondents and the energy suppliers were asked extensive questions about the types of DSM programs that the buildings participated in, the sponsors of those programs, and the types of assistance that was provided through the DSM programs. DSM participation data as reported by the building owners, managers, and tenants can be found in *Commercial Buildings Characteristics 1992* (DOE/EIA-0246(92)).

For further information concerning the CBECS DSM data or the CBECS in general, please contact Martha Johnson, CBECS Manager, at (202) 586-1135, FAX at (202) 586-0018, or Internet E-mail [mjohnson@eia.doe.gov](mailto:mjohnson@eia.doe.gov).