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U.S. Electric Utility Demand-Side Management 1996

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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. DSM data are reported on Schedule V, "Demand-Side Management Information," of Form EIA-861.

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

This chapter provides a background of electric utility demand-side management (DSM) and pertinent statistics on DSM for large electric utilities[1] 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 load reductions; primarily implemented at the time of peak load. Load reduction programs have little effect on total energy consumption. Electric utilities have steadily increased DSM programs in the last decade to promote energy efficiency, and achieve cost effectiveness for both utilities and consumers, mainly by deferring the need to build new power plants. Energy efficiency programs also conserve fossil-fuel energy sources and reduce air emissions.

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

Energy Efficiency programs are aimed at reducing the energy consumed 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 financing or financial incentives for participation.

Direct Load Control represents the consumer load that can be interrupted during periods of peak demand 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.[2] 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

[1] Large utilities are those with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours annually.

[2] 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.

program categories. Included are programs that promote consumers' substitution of other types of energy for electricity and self-generation of electricity for the 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 the 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. 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.

One key element in the DSM program planning and selection process is the identification and evaluation of consumer characteristics that influence acceptance and responses 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 the identification of 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.

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 measures the revenue-shifting effect unique to DSM 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 exceed its marginal costs, a DSM program will likely increase rates. The converse is true when marginal costs are forecast to exceed average costs.

Current Issues and Trends

Throughout the United States, States are taking action to transform the electric power industry from a regulated monopoly into a competitive business. Most States are actively considering proposals for restructuring the electric power industry, including options for deregulating the generation segment of the industry and providing retail access. Fourteen States including California, New York, and Arizona have enacted statutes and/or adopted policies that will create a competitive retail access market. Eleven States including Massachusetts, Washington, and Michigan have pilot projects to test limited retail competition. Such changes are affecting utility DSM activities and could significantly change the financing, structure, and delivery of end use energy services.

Traditionally, utility DSM programs have been developed through an integrated resource planning process which compared the cost of DSM programs to the cost of other resources and are approved by State Public Utility Commissions. In a competitive market, regulated utilities may not retain their obligation to provide generation services and regulatory oversight of their DSM programs. Additionally, competition is creating pressure for utilities to cut costs. In some instances, this has resulted in a reduction in planned DSM expenditures and a shift away from customer rebate programs. Further, to the extent utility generation revenues ultimately may be based on competitive market prices, a conflict could emerge between the interests of generation owning utilities in higher generation prices and the effects of some DSM programs to reduce demand and possibly to help hold down competitive prices for generation. These factors could contribute to slower growth in energy savings from DSM programs.

New retailing activities are emerging as competition grows in the electric power industry. These include increased utility attention to marketing and the activities of new brokers and energy service companies. These new energy retailers can be expected to offer customers packages of services that include electricity (and in some cases natural gas), financial services to hedge price uncertainty, and expanded energy management services designed to allow consumers to adjust their energy usage to changing electricity prices. Demand-side services will be competitively marketed as a means of helping consumers manage their energy bills. These services may include automated energy management linked to a communications system that provides consumers and their energy management systems access to changing hourly electricity prices.

Regulators and legislators in some States are likely to set aside funds collected from all consumers connected to the distribution system to support energy efficiency programs. The California restructuring legislation has used this approach to require utilities to purchase energy efficiency savings under standard offers.

Utilities in the Pacific Northwest and New England have formed consortiums to support energy efficiency market transformation, programs that attempt to create lasting changes in markets for energy efficient products. Such efforts may represent a more economical way to achieve long-term energy savings.

Even though incremental savings from energy efficiency programs in 1996 were less than the savings achieved in 1995 overall energy savings increased. This suggests that efficiency programs are continuing to play a significant role in the Nation's resource mix, even as it changes to reflect the development of a more competitive electric power industry.

In 1996, 1003 of the 3,199 electric utilities in the United States reported having DSM programs. Of these 1003 electric utilities, 573 are classified as large and 430 as small.[3] The 1003 utilities accounted for approximately 71 percent of the total retail sales of electricity in the United States.

In 1996, energy savings for the 573 large utilities was 61,842 million kilowatthours (kWh) an increase of 4,421 million kWh over the 57,421 million kWh reported in 1995. These energy savings represent 2.0 percent of annual electric sales to ultimate consumers in 1996 of 3,097,810 million kWh.[4]

[3] 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 megawatthours annually.

[4] Energy Information Administration, *Electric Sales and Revenue 1996,* DOE/EIA0540(96) (Washington, DC, December 1997), Table 1, p. 5.

Actual peak load reductions for large utilities in 1996 are 29,893 MW, an increase of 1.1 percent, from 29,561 megawatts (MW) in 1995. These actual peak load reductions are approximately 4 percent of the total peak load in the United States. Potential peak load reductions in 1996 was 48,344 MW, an increase of 2.8 percent, from 47,029 MW in 1995. DSM costs were approximately $1.9 billion in 1996, a decrease of 21.5 percent.

Incremental effects are those caused by new programs and new participants in existing programs for the current reporting year. For 1996, incremental energy savings for large utilities were 6,844 million kWh and incremental actual peak load reductions were 3,689 MW (Figure 2).[5]

Table 1. U.S. Electric Utility DSM Program Energy Savings, Actual and Potential Peak Load Reductions, and Cost, 1992 Through 1996

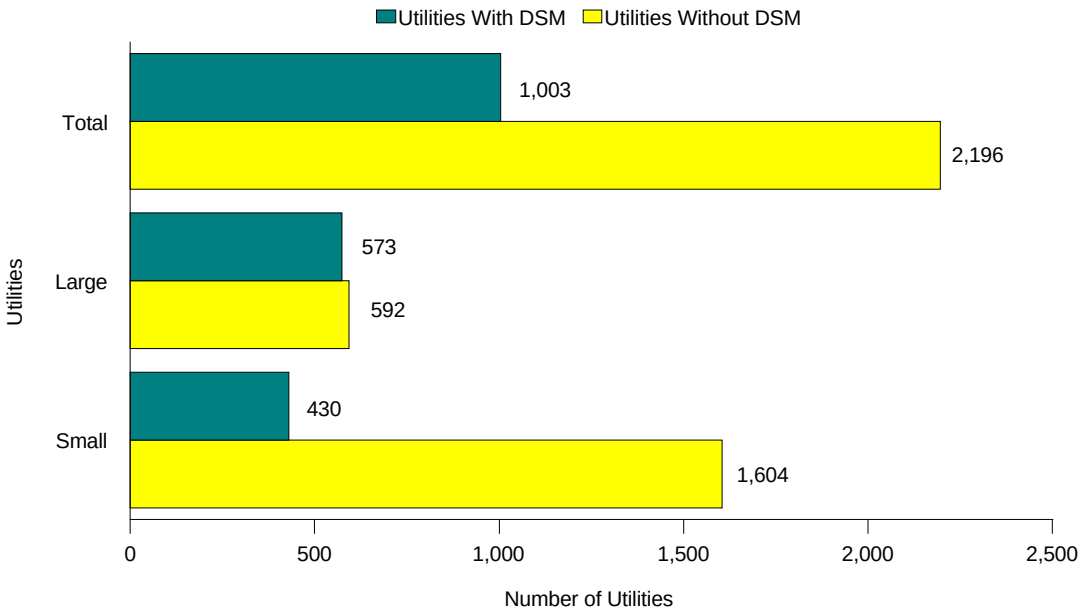
Item	1992	1993	1994	1995	1996
Energy Savings (million kilowatthours)	35,563	45,294	52,483	57,421	61,842
Actual Peak Load Reductions (megawatts)	17,204	23,069	25,001	29,561	29,893
Potential Peak Load Reductions (megawatts)	32,442	39,508	42,917	47,029	48,344
Cost (thousand dollars)	2,348,094	2,743,533	2,715,657	2,421,261	1,902,197

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.''

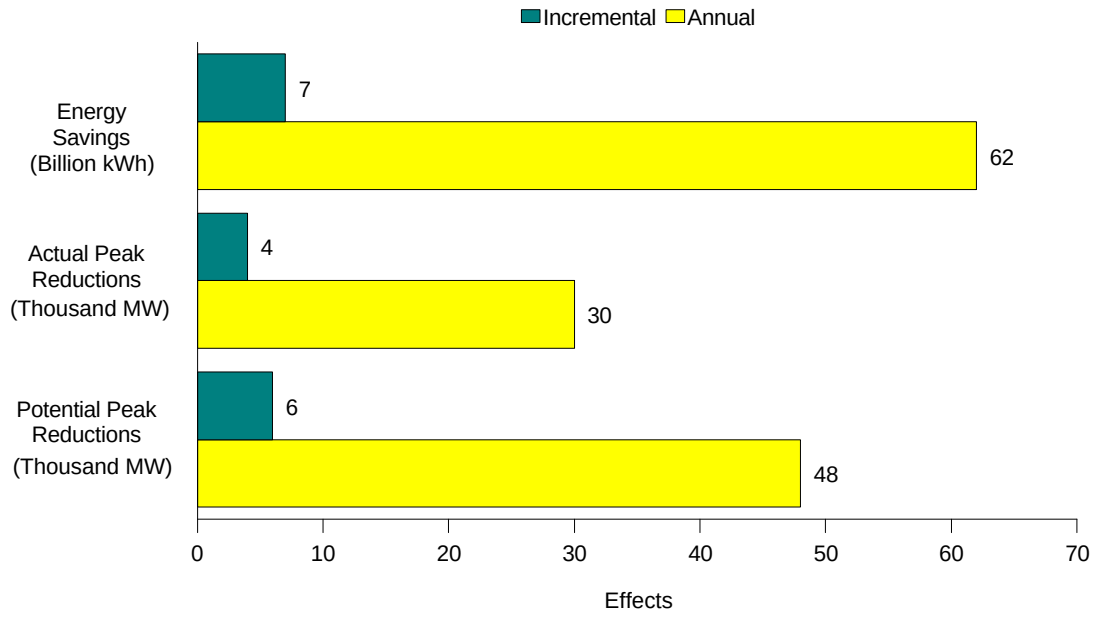
[5] It is incorrect to assume that 1995 annual effects plus 1996 incremental effects are equal to 1996 annual effects. Reasons for this discrepancy include incremental effects being annualized, and the effects of participants dropping out of programs that are not included in incremental effects.

Figure 1. Number of U.S. Electric Utilities with and without DSM Programs, 1996



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

Figure 2. U.S. Electric Utility DSM Program Incremental and Annual Effects for Energy Savings and Actual and Potential Peak Load Reductions, 1996



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

Energy Savings

Energy savings represent a decrease in the amount of electricity (measured in kilowatthours (kWh)) that would have otherwise been consumed, absent of DSM. 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 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).

In 1996, energy savings increased 7.7 percent to 61,842 million kWh from the 1995 level of 57,421 million kWh. For 1997, energy savings are forecasted to increase 3.9 percent to 64,252 million kWh, and for 2001, energy savings are forecasted to increase at an annual rate of 3.9 percent to 74,552 million kWh (Table 2). The decline in the rate of increase, compared with prior years, is due to many factors. For example, electric utilities are cautious about energy efficiency programs because of competition in the electric power industry, and saturation of the energy efficiency market.

In 1996, energy savings represented a reduction in electricity sales by electric utilities of 2.0 percent.[6] Approximately 45.6 percent of utilities that had energy saving programs reduced their energy sales by more than 1 percent in 1996 (Figure 3). Investor-owned utilities represented the greatest energy savings as a percentage of sales in 1996.

The 100 utilities with the greatest energy savings accounted for 95.5 percent of total energy savings. The 50 and 25 utilities with the greatest energy savings accounted for 86.3 percent and 71.2 percent of total energy savings (Figure 4). These 100, 50, and 25 utilities with the greatest energy savings represented 55.4 percent, 36.6 percent, and 25.9 percent, respectively, of total retail sales of electricity in the United States for 1996.

Investor-owned utilities accounted for 81.5 percent of energy savings in 1996; publicly owned utilities accounted for 7.3 percent; cooperatives, .8 percent; and Federally owned utilities, 10.4 percent.[7] From 1995 to 1996, investor-owned electric utilities increased energy savings by 4.8 percent. Savings by publicly owned utilities increased 39.4 percent. Savings by cooperatives and Federal electric utilities increased 127.4 percent and 9.2 percent. The largest increase over 1995 was for investor-owned electric utilities, increasing 2,322 million kWh. However, from 1996 to 1997, the forecasted rate of increase for investor-owned electric utilities fell to 2.9 percent, while it increased to 15.3 percent for cooperatives. From 1996 to 1997, publicly owned utilities and Federal electric utilities' energy savings are predicted to increase 10.4 and 6.0 percent, respectively. From 1997 to 2001, projected energy savings are expected to increase in all classes of ownership, with the largest percent increases, 5.9 and 4.4 percent annually, for publicly owned electric utilities and cooperatives, respectfully. The largest increase overall is predicted for investor-owned utilities.

In 1996, energy efficiency programs accounted for 96.8 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 3.2 percent of energy savings. Energy savings from energy efficiency programs increased 8.2 percent over the 1995 level. Energy savings decreased in all other categories, except direct load control and "other" DSM programs. For 1997, energy efficiency programs are predicted to continue to account for the greatest share of energy savings, 98.0 percent. The greatest percentage of increase is predicted for interruptible load control, which is expected to increase by 35.4 percent by 1997. By 2001, energy efficiency programs are expected to increase energy savings by an additional 10,021 million kWh over projected 1997 levels (Table 3).

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

[6] Total U.S. electric utility sales to ultimate consumers for 1996 were 3,097,810 million kWh (*Electric Sales and Revenue 1996*).

[7] 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.

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 (Table 4).

The commercial sector accounted for 47.2 percent of energy savings in 1996, followed by the residential, industrial, and other sectors with 33.3 percent, 17.0 percent, and 2.6 percent, respectively. Among the major consumer sectors, the greatest percentage of increase from 1995 to 1996 was in the other sector, with 16.0 percent more energy savings (Table 5).

In 1996, incremental energy savings (the savings achieved by new programs and new participants in existing programs in a given year) decreased from 8,222 million kWh in 1995 to 6,844 million kWh for large utilities but decreased from 20 million kWh to 13 million kWh for small utilities. By class of ownership, large investor-owned utilities accounted for 81.7 percent of incremental energy savings. Publicly owned electric utilities and cooperatives both showed an increase in incremental energy savings in 1996 (Table 6).

By program category, incremental energy savings for large utilities in 1996 decreased in energy efficiency and other load management. For small electric utilities in 1996, energy efficiency programs decreased 9 million kWh (Table 7).

The commercial sector accounted for 51.6 percent of incremental energy savings, 3,540 million kWh; the residential sector accounted for 17.3 percent, 1,186 million kWh; and the industrial sector accounted for 26.1 percent, 1,789 million kWh.

The NERC region with the greatest percentage of energy savings was Western Systems Coordinating Council (WSCC), accounting for 38.3 percent of energy savings in 1996. 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 16.8 percent of total energy savings. In 1996, these two regions combined accounted for 55.1 percent of total U.S. energy savings.

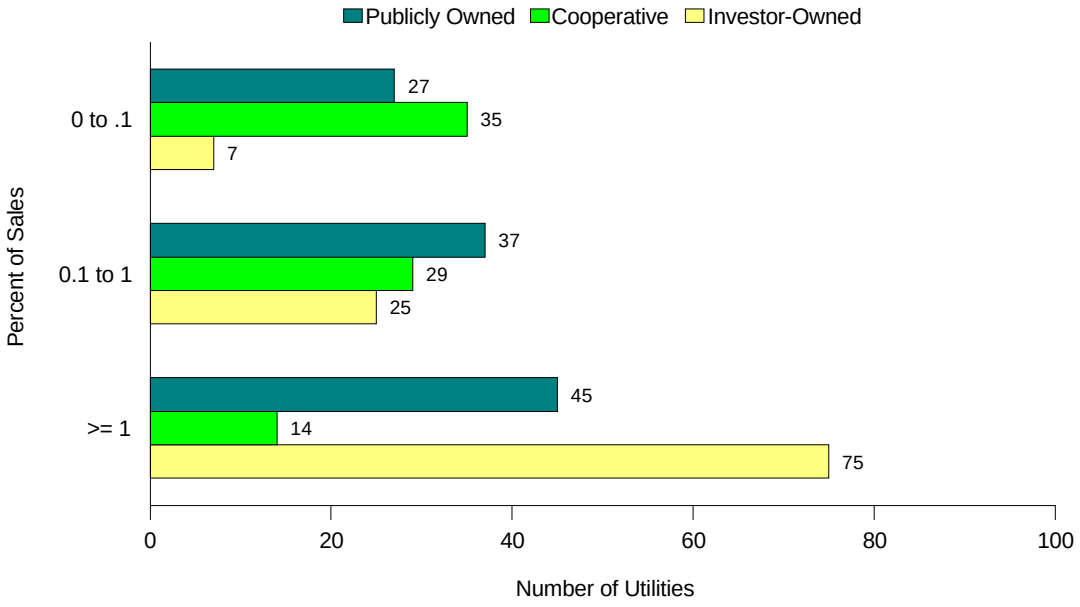
For 1997, the greatest percentage of increase, 17.5 percent, in energy savings is predicted for the Mid-Atlantic Area Council (MAAC) region. The MAAC region is also expected to have the greatest annual rate of growth in energy savings from 1997 to 2001 at 9.9 percent (Table 9).

Table 2. U.S. Electric Utility DSM Program Energy Savings by Class of Ownership, 1992 Through 1996, 1997 and 2001
(Million Kilowatthours)

Class of Ownership	Historical Savings					Projected Savings	
	1992	1993	1994	1995	1996	1997	2001
Investor-Owned	25,926	35,077	41,132	48,060	50,382	51,860	60,102
Publicly Owned	2,416	2,562	2,965	3,218	4,486	4,952	6,222
Cooperative	400	705	560	230	523	603	717
Federal	6,822	6,950	7,826	5,911	6,452	6,836	7,511
U.S. Total	**35,563**	**45,294**	**52,483**	**57,421**	**61,842**	**64,252**	**74,552**

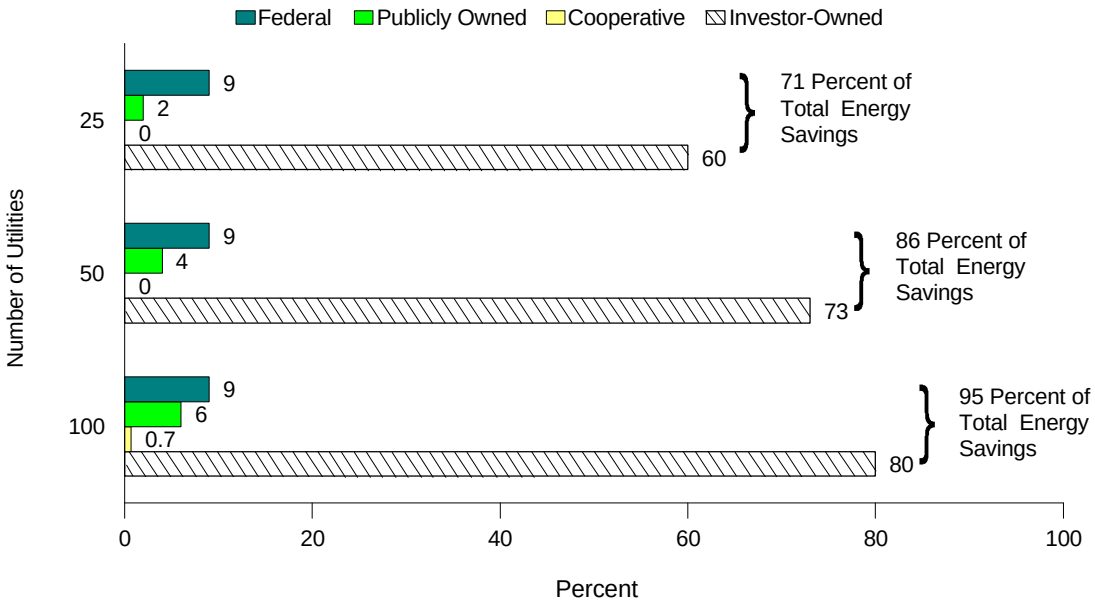
Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours. •Totals may not equal sum of components because of independent rounding.
Source: Energy Information Administration, Form EIA-861, ''Annual Electric Utility Report.''

Figure 3. Energy Savings as a Percentage of Retail Sales by U.S. Electric Utilities with DSM Energy Savings Programs and Sales to Ultimate Consumers by Class of Ownership, 1996



Note: Graph includes only large utilities that reported energy savings.
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, 1996



Note: Graph includes only large utilities that reported energy savings. No cooperatives were included in the top 25 or 50 utilities.
Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Table 3. U.S. Electric Utility DSM Program Energy Savings by Program Category, 1995, 1996, 1997, and 2001
(Million Kilowatthours)

Program Category	Historical Savings	
	1995	1996
Energy Efficiency	55,328	59,853
Direct Load Control	133	134
Interruptible Load	434	362
Other Load Management	297	–196
Other Demand-Side Management	1,229	1,689
U.S. Total	**57,421**	**61,842**
	Projected Savings	
	1997	**2001**
Energy Efficiency	62,969	72,990
Direct Load Control	139	161
Interruptible Load	490	708
Other Load Management	–303	–337
Other Demand-Side Management	957	1,029
U.S. Total	**64,252**	**74,552**

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, 1996

ITEM	Sectors		
	Residential	Commercial	Industrial
End Uses			
Heating Sytems	278	195	107
Cooling Sytems	274	217	130
Water Heating	292	159	101
Lighting	181	214	181
Building Shell	192	128	86
New Construction	207	132	93
Appliances	130	65	42
Motors	--	143	164
Process Heating	--	47	80
Electrolytics	--	9	22
Other Systems	15	22	27
Program Types			
Energy Audits	303	263	198
Rebate	256	196	133
Loans	138	91	62
Other Incentives [1]	83	69	63
Other Programs	50	47	45

[1] 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, 1995 and 1996

(Million Kilowatthours)

Sector	1995	1996
Residential	20,253	20,585
Commercial	26,187	29,186
Industrial	9,620	10,493
Other	1,360	1,578
U.S. Total	**57,421**	**61,842**

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, 1995 and 1996
(Million Kilowatthours)

Class of Ownership	Large Utilities [1]		Small Utilities [2]		Total	
	1995	1996	1995	1996	1995	1996
Investor-Owned	6,933	5,590	1	1	6,933	5,591
Publicly Owned	593	619	15	8	609	628
Cooperative	67	94	4	4	71	99
Federal	629	540	0	0	629	540
U.S. Total	**8,222**	**6,844**	**20**	**13**	**8,242**	**6,857**

1 Refers to electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.
2 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 7. U.S. Electric Utility Incremental Energy Savings by Program Category, 1995 and 1996
(Million Kilowatthours)

Program Category	Large Utilities [1]		Small Utilities [2]		Total	
	1995	1996	1995	1996	1995	1996
Energy Efficiency	7,901	6,361	16	7	7,918	6,369
Direct Load Control	12	12	2	3	14	14
Interruptible Load	56	267	1	1	57	268
Other Load Management	60	–16	*	2	60	–14
Other Demand-Side Management	193	219	*	*	194	220
U.S. Total	**8,222**	**6,844**	**20**	**13**	**8,242**	**6,857**

1 Refers to electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.
2 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 8. U.S. Electric Utility Incremental Energy Savings by Sector, 1995 and 1996
(Million Kilowatthours)

Sector	Large Utilities [1]		Small Utilities [2]		Total	
	1995	1996	1995	1996	1995	1996
Residential	1,630	1,179	9	7	1,639	1,186
Commercial	4,594	3,537	5	3	4,599	3,540
Industrial	1,678	1,787	5	2	1,683	1,789
Other	320	341	2	1	321	342
U.S. Total	**8,222**	**6,844**	**20**	**13**	**8,242**	**6,857**

1 Refers to electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.
2 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 9. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1995, 1996, 1997, and 2001

(Million Kilowatthours)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1995	1996	1997	2001
ECAR					
American Mun Power-Ohio Inc	Publicly Owned	1	1	1	2
Appalachian Power Co	Investor-Owned	92	99	98	125
Cincinnati Gas & Electric Co	Investor-Owned	95	522	108	235
Cleveland Electric Illum Co	Investor-Owned	59	—	—	—
Columbus Southern Power Co	Investor-Owned	55	63	65	76
Consumers Energy Co	Investor-Owned	348	441	426	426
Crawfordsville Elec Lgt&Pwr Co	Publicly Owned	*	*	*	1
Dayton Power & Light Co	Investor-Owned	283	365	428	674
Detroit Edison Co	Investor-Owned	109	109	144	141
East Kentucky Power Coop Inc	Cooperative	2	3	4	0
Hagerstown City of	Publicly Owned	0	*	*	*
Harrison County Rural E C C	Cooperative	—	0	1	1
Indiana Michigan Power Co	Investor-Owned	28	35	30	33
Indiana Municipal Power Agency	Publicly Owned	*	*	*	1
Indianapolis Power & Light Co	Investor-Owned	117	161	254	296
Kentucky Power Co	Investor-Owned	20	28	25	70
Kentucky Utilities Co	Investor-Owned	46	48	49	49
Kingsport Power Co	Investor-Owned	8	9	9	14
Lansing City of	Publicly Owned	*	*	1	4
Louisville Gas & Electric Co	Investor-Owned	7	14	20	26
Monongahela Power Co	Investor-Owned	255	264	256	256
Ohio Edison Co	Investor-Owned	176	203	231	529
Ohio Power Co	Investor-Owned	52	57	54	63
Owen Electric Coop Inc	Cooperative	1	2	2	5
Owensboro City of	Publicly Owned	—	22	33	25
Pennsylvania Power Co	Investor-Owned	0	0	1	6
Potomac Edison Co	Investor-Owned	433	439	463	470
PSI Energy Inc	Investor-Owned	469	456	258	655
Southern Indiana Gas & Elec Co	Investor-Owned	51	76	77	81
Toledo Edison Co	Investor-Owned	46	—	—	—
Union Light Heat & Power Co	Investor-Owned	—	1	21	45
West Penn Power Co	Investor-Owned	275	276	279	279
Wheeling Power Co	Investor-Owned	2	2	3	4
ECAR Total		**3,030**	**3,695**	**3,340**	**4,588**
ERCOT					
Austin City of	Publicly Owned	470	546	607	847
Brazos Electric Power Coop Inc	Cooperative	19	29	36	36
Bryan City of	Publicly Owned	11	18	20	24
Central Power & Light Co	Investor-Owned	114	134	22	0
College Station City of	Publicly Owned	1	2	1	1
Denton City of	Publicly Owned	2	—	—	—
Georgetown City of	Publicly Owned	*	*	*	1
Greenville Electric Util Sys	Publicly Owned	*	*	*	4
Houston Lighting & Power Co	Investor-Owned	211	232	275	0
Lower Colorado River Authority	Publicly Owned	143	160	160	160
Magic Valley Electric Coop Inc	Cooperative	4	6	8	10
San Bernard Electric Coop Inc	Cooperative	*	*	*	*
San Marcos City of	Publicly Owned	11	11	11	13
Texas Utilities Electric Co	Investor-Owned	2,643	2,660	2,695	2,695
Texas-New Mexico Power Co	Investor-Owned	69	—	—	—
West Texas Utilities Co	Investor-Owned	60	68	70	0
ERCOT Total		**3,757**	**3,866**	**3,904**	**3,790**
MAAC					
A & N Electric Coop	Cooperative	1	2	1	1
Adams Electric Coop Inc	Cooperative	*	—	—	—
Allegheny Electric Coop Inc	Cooperative	0	*	*	1
Atlantic City Electric Co	Investor-Owned	66	—	—	—
Baltimore Gas & Electric Co	Investor-Owned	439	525	585	646
Delmarva Power & Light Co	Investor-Owned	97	131	130	130
Easton Utilities Comm	Publicly Owned	*	—	—	—
Jersey Central Power&Light Co	Investor-Owned	163	244	341	455
Metropolitan Edison Co	Investor-Owned	86	93	107	156
Pennsylvania Electric Co	Investor-Owned	96	108	120	174
Pennsylvania Power & Light Co	Investor-Owned	71	93	93	93
Potomac Electric Power Co	Investor-Owned	1,287	1,575	1,682	2,847
Public Service Electric&Gas Co	Investor-Owned	605	831	1,154	1,654
PECO Energy Co	Investor-Owned	74	—	—	—
Southern Maryland El Coop Inc	Cooperative	12	19	42	45
UGI Utilities Inc	Investor-Owned	*	*	*	1
MAAC Total		**3,000**	**3,620**	**4,255**	**6,202**

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, 1995, 1996, 1997, and 2001
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1995	1996	1997	2001
MAIN					
Central Illinois Light Co	Investor-Owned	0	1	1	3
Coles-Moultrie Electric Coop	Cooperative	*	*	*	*
Columbia City of	Publicly Owned	8	9	16	10
Commonwealth Edison Co	Investor-Owned	17	25	0	0
Eastern Illini Electric Coop	Cooperative	3	3	3	3
Madison Gas & Electric Co	Investor-Owned	164	192	252	366
Manitowoc Public Utilities	Publicly Owned	14	14	14	15
Marshfield City of	Publicly Owned	5	5	5	7
Southeastern IL Elec Coop Inc	Cooperative	*	*	*	*
Southwestern Electric Coop Inc	Cooperative	1	1	0	0
Springfield City of	Publicly Owned	12	15	19	31
Union Electric Co	Investor-Owned	7	5	5	185
Wisconsin Electric Power Co	Investor-Owned	1,664	1,737	1,842	1,760
Wisconsin Power & Light Co	Investor-Owned	342	417	487	786
Wisconsin Public Power Inc Sys	Publicly Owned	28	36	5	3
Wisconsin Public Service Corp	Investor-Owned	467	546	604	0
MAIN Total		**2,732**	**3,007**	**3,253**	**3,170**
MAPP(U.S.)					
Ames City of	Publicly Owned	1	1	1	3
Anoka City of	Publicly Owned	1	1	1	1
Austin City of	Publicly Owned	1	6	6	6
Barron Electric Coop	Cooperative	1	5	6	6
Capital Electric Coop Inc	Cooperative	*	*	*	*
Cass County Electric Coop Inc	Cooperative	1	1	2	4
Cedar Falls City of	Publicly Owned	2	2	2	3
Central Iowa Power Coop	Cooperative	1	1	1	2
Central Power Elec Coop Inc	Cooperative	*	*	*	*
Chaska City of	Publicly Owned	*	*	*	*
Clark Electric Coop	Cooperative	*	3	3	5
Coop Power Assn	Cooperative	18	37	44	82
Eau Claire Electric Coop	Cooperative	*	*	*	*
Fairmont Public Utilities Comm	Publicly Owned	2	2	3	4
Freeborn-Mower Electric Coop	Cooperative	—	*	*	*
Grant-Lafayette Electric Coop	Cooperative	2	2	2	2
Interstate Power Co	Investor-Owned	88	131	154	253
Iowa Lakes Electric Coop	Cooperative	6	6	8	13
IES Utilities Inc	Investor-Owned	163	163	218	457
Lincoln Electric System	Publicly Owned	17	7	9	14
Marshall City of	Publicly Owned	*	*	*	*
Midland Power Coop	Cooperative	2	*	6	7
MidAmerican Energy Co	Investor-Owned	229	298	335	575
Minnesota Power & Light Co	Investor-Owned	108	141	281	492
Moorhead City of	Publicly Owned	2	4	1	1
Mountrail-Williams Elec Coop	Cooperative	9	10	11	12
Municipal Energy Agency of NE	Publicly Owned	1	1	1	3
Muscatine City of	Publicly Owned	5	5	7	7
Nodak Electric Coop Inc	Cooperative	2	2	2	2
Norris Public Power District	Publicly Owned	1	—	—	—
North Platte City of	Publicly Owned	*	—	—	—
Northern States Power Co of MN	Investor-Owned	1,405	1,790	2,033	2,332
Northern States Power Co of WI	Investor-Owned	333	379	391	583
Northwest Iowa Power Coop	Cooperative	11	11	13	19
Northwestern Wisconsin Elec Co	Investor-Owned	1	2	2	2
Oakdale Electric Coop	Cooperative	*	*	*	1
Omaha Public Power District	Publicly Owned	6	6	3	9
Otter Tail Power Co	Investor-Owned	38	50	49	51
Owatonna City of	Publicly Owned	*	1	*	*
Pella City of	Publicly Owned	1	—	—	—
People 's Coop Power Assn	Cooperative	*	*	*	*
R S R Electric Coop Inc	Cooperative	—	*	*	*
Rice Lake Utilities	Publicly Owned	1	7	12	28
Rochester Public Utilities	Publicly Owned	3	4	4	6
Shakopee Public Utilities Comm	Publicly Owned	*	*	*	1
Spencer City of	Publicly Owned	2	2	2	3
Superior Water Light&Power Co	Investor-Owned	3	4	1	1
Thief River Falls City of	Publicly Owned	—	1	1	1
Trempealeau Electric Coop	Cooperative	—	*	*	1
Tri-County Electric Coop	Cooperative	7	8	8	9
United Power Assn	Cooperative	18	43	47	53

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, 1995, 1996, 1997, and 2001
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1995	1996	1997	2001
MAPP(U.S.) (Continued)					
Verendrye Electric Coop Inc	Cooperative	*	*	*	*
Vernon Electric Coop	Cooperative	2	2	3	4
York County Rural Pub Pwr Dist	Publicly Owned	10	10	10	10
MAPP(U.S.) Total		**2,506**	**3,153**	**3,685**	**5,067**
NPCC(U.S.)					
Bangor Hydro-Electric Co	Investor-Owned	49	53	52	41
Blackstone Valley Electric Co	Investor-Owned	0	37	59	73
Boston Edison Co	Investor-Owned	416	14	53	53
Braintree Town of	Publicly Owned	*	*	*	*
Burlington City of	Publicly Owned	35	37	41	41
Cambridge Electric Light Co	Investor-Owned	100	98	106	106
Central Hudson Gas & Elec Corp	Investor-Owned	130	144	143	120
Central Maine Power Co	Investor-Owned	448	464	505	505
Central Vermont Pub Serv Corp	Investor-Owned	80	92	10	0
Chicopee City of	Publicly Owned	7	7	7	7
Citizens Utilities Co	Investor-Owned	15	25	29	40
Commonwealth Electric Co	Investor-Owned	117	120	128	128
Concord Electric Co	Investor-Owned	5	7	7	0
Connecticut Light & Power Co	Investor-Owned	1,331	1,345	1,391	1,811
Connecticut Valley Elec Co Inc	Investor-Owned	3	4	1	0
Consolidated Edison Co-NY Inc	Investor-Owned	1,970	2,202	2,128	2,413
Eastern Edison Co	Investor-Owned	0	76	105	117
Exeter & Hampton Electric Co	Investor-Owned	6	8	7	0
Fitchburg Gas & Elec Light Co	Investor-Owned	11	13	2	0
Granite State Electric Co	Investor-Owned	34	39	44	48
Green Mountain Power Corp	Investor-Owned	54	64	69	90
Hingham City of	Publicly Owned	4	3	4	4
Holyoke City of	Publicly Owned	*	10	7	36
Jamestown City of	Publicly Owned	*	*	6	6
Littleton Town of	Publicly Owned	*	*	1	*
Long Island Lighting Co	Investor-Owned	749	733	762	860
Maine Public Service Co	Investor-Owned	7	7	7	8
Massachusetts Electric Co	Investor-Owned	787	951	1,073	1,233
Massena Town of	Publicly Owned	1	1	*	2
Montaup Electric Co	Investor-Owned	115	—	—	—
Narragansett Electric Co	Investor-Owned	229	255	287	320
New England Power Co	Investor-Owned	1	0	*	0
New Hampshire Elec Coop Inc	Cooperative	3	5	3	2
New York State Elec & Gas Corp	Investor-Owned	593	623	633	957
Newport Electric Corp	Investor-Owned	—	17	18	24
Niagara Mohawk Power Corp	Investor-Owned	1,122	1,152	1,185	1,307
North Attleborough Town of	Publicly Owned	0	—	—	—
Norwood City of	Publicly Owned	5	5	5	0
Omya Inc	Investor-Owned	*	*	*	*
Orange & Rockland Utils Inc	Investor-Owned	235	239	252	293
Power Authority of State of NY	Publicly Owned	228	299	376	536
Public Service Co of NH	Investor-Owned	14	20	2	0
Reading Town of	Publicly Owned	*	*	*	*
Rochester Gas & Electric Corp	Investor-Owned	276	283	446	446
Shrewsbury Town of	Publicly Owned	5	5	5	5
Taunton City of	Publicly Owned	13	13	14	21
United Illuminating Co	Investor-Owned	237	279	15	5
Vermont Electric Coop Inc	Cooperative	—	1	1	0
Western Massachusetts Elec Co	Investor-Owned	261	270	15	127
NPCC(U.S.) Total		**9,694**	**10,022**	**10,004**	**11,785**
SERC					
Aiken Electric Coop Inc	Cooperative	1	2	2	2
Alabama Electric Coop Inc	Cooperative	36	43	49	0
Alabama Power Co	Investor-Owned	24	–562	–601	–758
Albemarle City of	Publicly Owned	*	*	*	*
Altamaha Electric Member Corp	Cooperative	*	*	*	*
Amicalola Electric Member Corp	Cooperative	*	*	*	*
Berkeley Electric Coop Inc	Cooperative	6	7	7	10
Black River Electric Coop Inc	Cooperative	2	2	2	3
Brunswick Electric Member Corp	Cooperative	*	*	*	*
BARC Electric Coop Inc	Cooperative	0	0	0	0
Camden City of	Publicly Owned	—	*	*	*
Carolina Power & Light Co	Investor-Owned	2,008	2,044	2,042	2,162

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, 1995, 1996, 1997, and 2001
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1995	1996	1997	2001
SERC (Continued)					
Carroll Electric Member Corp	Cooperative	2	*	0	0
Central Georgia El Member Corp	Cooperative	4	4	5	5
Central Virginia Electric Coop	Cooperative	1	1	1	2
Choctawhatche Elec Coop Inc	Cooperative	5	6	7	7
Coastal Electric Member Corp	Cooperative	1	—	—	—
Cobb Electric Membership Corp	Cooperative	19	23	2	2
Colquitt Electric Members Corp	Cooperative	1	*	*	*
Community Electric Coop	Cooperative	0	0	*	*
Coweta-Fayette El Member Corp	Cooperative	62	61	62	64
Crescent Electric Member Corp	Cooperative	1	—	—	—
Douglas City of	Publicly Owned	1	1	1	2
Duke Power Co	Investor-Owned	164	203	226	395
Easley Combined Utility System	Publicly Owned	2	1	1	1
East Point City of	Publicly Owned	*	*	*	3
Excelsior Electric Member Corp	Cooperative	0	0	0	0
Fairfield Electric Coop Inc	Cooperative	1	1	1	1
Fayetteville Public Works Comm	Publicly Owned	*	0	0	0
Fitzgerald Wtr Lgt & Bond Comm	Publicly Owned	*	*	*	*
Flint Electric Membership Corp	Cooperative	3	1	1	1
Florida Keys El Coop Assn Inc	Cooperative	*	*	*	*
Florida Power & Light Co	Investor-Owned	3,305	3,826	4,007	4,770
Florida Power Corp	Investor-Owned	1,044	1,117	1,162	1,378
Fort Pierce Utilities Auth	Publicly Owned	1	1	1	1
Gainesville Regional Utilities	Publicly Owned	66	62	67	79
Georgia Power Co	Investor-Owned	242	260	260	260
Grady County Elec Member Corp	Cooperative	*	0	*	*
Greenville Utilities Comm	Publicly Owned	16	17	17	19
Greer Comm of Public Works	Publicly Owned	0	*	*	*
Gulf Power Co	Investor-Owned	401	394	481	577
Harrisonburg City of	Publicly Owned	0	0	2	2
Haywood Electric Member Corp	Cooperative	*	*	0	0
Jackson Electric Member Corp	Cooperative	3	1	1	1
Jacksonville Electric Auth	Publicly Owned	34	39	2	6
Jefferson Electric Member Corp	Cooperative	1	1	*	1
Jones-Onslow Elec Member Corp	Cooperative	—	5	6	9
Kissimmee Utility Authority	Publicly Owned	6	7	8	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	24	27	30	38
Leesburg City of	Publicly Owned	*	*	*	*
Lumberton City of	Publicly Owned	0	0	0	0
Lynches River Elec Coop Inc	Cooperative	0	1	1	1
Manassas City of	Publicly Owned	*	*	*	*
Marietta City of	Publicly Owned	*	—	—	—
Mecklenburg Electric Coop Inc	Cooperative	*	*	0	0
Mid-Carolina Electric Coop Inc	Cooperative	4	4	5	6
Mississippi Power Co	Investor-Owned	10	11	12	18
Mitchell Electric Member Corp	Cooperative	1	1	1	1
Municipal Electric Authority	Publicly Owned	10	12	14	20
New Bern City of	Publicly Owned	1	22	24	27
Northern Neck Elec Coop Inc	Cooperative	*	*	*	*
Northern Virginia Elec Coop	Cooperative	1	*	*	*
Ocala City of	Publicly Owned	10	—	—	—
Ocmulgee Electric Member Corp	Cooperative	—	*	*	*
Orangeburg City of	Publicly Owned	1	*	1	1
Orlando Utilities Comm	Publicly Owned	83	92	95	113
Palmetto Electric Coop Inc	Cooperative	3	4	5	6
Pee Dee Electric Coop Inc	Cooperative	1	1	1	2
Planters Electric Member Corp	Cooperative	0	0	0	0
Rayle Electric Membership Corp	Cooperative	0	0	0	0
Reedy Creek Improvement Dist	Publicly Owned	*	*	13	51
Rock Hill City of	Publicly Owned	1	1	*	*
Rocky Mount City of	Publicly Owned	0	0	1	0
Satilla Rural Elec Member Corp	Cooperative	*	*	0	*
Savannah Electric & Power Co	Investor-Owned	15	15	6	11
Sawnee Electric Members Corp	Cooperative	1	2	2	4
Shenandoah Valley Elec Coop	Cooperative	1	1	1	2
Singing River Elec Power Assn	Cooperative	6	6	6	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, 1995, 1996, 1997, and 2001
(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1995	1996	1997	2001
SERC (Continued)					
South Carolina Electric&Gas Co	Investor-Owned	192	194	205	216
South Carolina Pub Serv Auth	Publicly Owned	37	42	49	80
South Mississippi El Pwr Assn	Cooperative	–176	25	33	55
Sumter Electric Coop Inc	Cooperative	20	22	21	27
Tallahassee City of	Publicly Owned	112	119	127	164
Tampa Electric Co	Investor-Owned	191	220	265	424
Tennessee Valley Authority	Federal	1,681	1,696	1,713	1,800
Thomasville City of	Publicly Owned	*	*	*	*
Tri-County Elec Member Corp	Cooperative	*	0	0	0
Tri-County Elec Member Corp	Cooperative	*	*	*	*
Virginia Electric & Power Co	Investor-Owned	441	303	386	410
Walton Electric Member Corp	Cooperative	1	—	—	—
Wilson City of	Publicly Owned	5	7	6	7
Withlacoochee River Elec Coop	Cooperative	3	4	18	28
York Electric Coop Inc	Cooperative	*	*	*	*
SERC Total		**10,143**	**10,404**	**10,867**	**12,534**
SPP					
Carroll Electric Coop Corp	Cooperative	*	*	*	*
Central Rural Electric Coop	Cooperative	3	3	3	5
Craighead Electric Coop Corp	Cooperative	*	*	*	*
Delta Electric Power Assn	Cooperative	3	0	0	0
Farmers ' Electric Coop Inc	Cooperative	0	*	*	*
First Electric Coop Corp	Cooperative	4	6	6	7
Independence City of	Publicly Owned	3	3	4	6
Kansas City City of	Publicly Owned	0	1	1	1
Kansas Electric Power Coop Inc	Cooperative	3	3	4	4
North Arkansas Elec Coop Inc	Cooperative	0	0	0	0
Northeast Louisiana Power Coop	Cooperative	10	10	11	12
Oklahoma Gas & Electric Co	Investor-Owned	123	121	120	115
Ozark Electric Coop Inc	Cooperative	6	6	12	18
Petit Jean Electric Coop Corp	Cooperative	*	*	*	*
Red River Valley Rrl Elec Assn	Cooperative	10	4	4	5
South Central Ark El Coop Inc	Cooperative	3	3	3	3
South Plains Electric Coop Inc	Cooperative	8	8	8	21
Southwestern Electric Power Co	Investor-Owned	27	48	60	0
Southwestern Public Service Co	Investor-Owned	132	141	156	199
Stillwater Utilities Authority	Publicly Owned	*	*	*	*
UtiliCorp United Inc	Investor-Owned	0	0	0	16
White River Valley El Coop Inc	Cooperative	*	*	*	*
SPP Total		**335**	**358**	**393**	**413**
WSCC(U.S.)					
Alameda City of	Publicly Owned	8	10	11	15
Anaheim City of	Publicly Owned	32	37	38	86
Arizona Electric Pwr Coop Inc	Cooperative	1	0	0	0
Arizona Public Service Co	Investor-Owned	545	545	566	574
Black Hills Corp	Investor-Owned	14	—	—	—
Bonneville Power Admin	Federal	4,230	4,756	5,124	5,711
Boulder City City of	Publicly Owned	—	6	7	13
Bountiful City City of	Publicly Owned	*	*	1	1
Canby Utility Board	Publicly Owned	—	*	*	*
Colorado Springs City of	Publicly Owned	5	*	5	48
Columbia River Peoples Ut Dist	Publicly Owned	2	6	7	10
El Paso Electric Co	Investor-Owned	39	39	10	0
Ellensburg City of	Publicly Owned	15	15	16	18
Emerald People 's Utility Dist	Publicly Owned	—	12	17	17
Eugene City of	Publicly Owned	208	231	250	350
Forest Grove City of	Publicly Owned	—	8	11	13
Fort Collins City of	Publicly Owned	*	0	0	0
Idaho Power Co	Investor-Owned	181	185	193	213
Imperial Irrigation District	Publicly Owned	8	9	9	10
Longmont City of	Publicly Owned	21	16	22	26
Los Angeles City of	Publicly Owned	264	273	273	205
Loveland City of	Publicly Owned	3	3	*	*
Modesto Irrigation District	Publicly Owned	13	14	15	0
Montana Power Co	Investor-Owned	218	250	260	446
Mountain View Elec Assn Inc	Cooperative	—	*	*	*
Navopache Electric Coop Inc	Cooperative	2	2	2	3
Nevada Power Co	Investor-Owned	164	151	151	75

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, 1995, 1996, 1997, and 2001

(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Savings		Projected Savings	
		1995	1996	1997	2001
WSCC(U.S.) (Continued)					
Overton Power District No 5	Publicly Owned	4	—	—	—
Pacific Gas & Electric Co	Investor-Owned	3,054	3,021	3,351	3,351
PacifiCorp	Investor-Owned	1,095	1,257	1,158	1,737
Palo Alto City of	Publicly Owned	12	12	12	16
Pasadena City of	Publicly Owned	16	25	30	60
Portland General Electric Co	Investor-Owned	647	738	738	738
Poudre Valley R E A Inc	Cooperative	—	1	1	1
Public Service Co of Colorado	Investor-Owned	193	332	367	342
Puget Sound Power & Light Co	Investor-Owned	1,776	1,835	1,836	1,836
PUD No 1 of Benton County	Publicly Owned	4	4	5	6
PUD No 1 of Clark County	Publicly Owned	20	12	40	40
PUD No 1 of Pend Oreille Cnty	Publicly Owned	7	8	8	9
PUD No 2 of Grant County	Publicly Owned	87	227	380	390
Redding City of	Publicly Owned	*	*	*	*
Riverside City of	Publicly Owned	9	—	—	—
Roseville City of	Publicly Owned	5	6	7	10
Sacramento Municipal Util Dist	Publicly Owned	565	648	705	901
Salem Electric Coop	Cooperative	2	2	3	13
Salt River Proj Ag I & P Dist	Publicly Owned	66	149	154	154
San Diego Gas & Electric Co	Investor-Owned	645	981	1,094	1,388
San Miguel Power Assn Inc	Cooperative	—	*	*	*
Santa Clara City of	Publicly Owned	1	*	1	3
Seattle City of	Publicly Owned	238	525	577	791
Sierra Pacific Power Co	Investor-Owned	223	—	—	—
Southern California Edison Co	Investor-Owned	6,798	6,185	5,852	5,852
Springfield City of	Publicly Owned	70	80	8	6
Sulphur Springs Valley E C Inc	Cooperative	*	*	*	*
Tacoma City of	Publicly Owned	71	410	472	507
Trico Electric Coop Inc	Cooperative	*	*	*	0
Tucson Electric Power Co	Investor-Owned	86	96	103	177
Turlock Irrigation District	Publicly Owned	9	15	4	6
United Power Inc	Cooperative	–2	–2	–3	–4
Utah Municipal Power Agency	Publicly Owned	4	5	6	8
Vera Irrigation District # 15	Publicly Owned	1	—	—	—
Vernon City of	Publicly Owned	3	3	3	4
Washington Water Power Co	Investor-Owned	491	508	567	663
Yellowstone Valley Elec Co-op	Cooperative	8	9	10	15
WSCC(U.S.) Total		**22,178**	**23,663**	**24,476**	**26,852**
Contiguous U.S.		**57,374**	**61,789**	**64,178**	**74,402**
ASCC					
Alaska Electric Light&Power Co	Investor-Owned	*	*	0	0
Golden Valley Elec Assn Inc	Cooperative	4	5	5	4
ASCC Total		**4**	**5**	**5**	**4**
Hawaii					
Hawaii Electric Light Co Inc	Investor-Owned	3	9	9	71
Hawaiian Electric Co Inc	Investor-Owned	11	12	30	0
Maui Electric Co Ltd	Investor-Owned	29	28	30	75
Hawaii Total		**43**	**49**	**69**	**146**
U.S. Total		**57,421**	**61,842**	**64,252**	**74,552**

* 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.''

Table 10. U.S. Electric Utility Energy Savings by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1996

(Million Kilowatthours)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management [1]	Total DSM Programs
ECAR			
American Mun Power-Ohio Inc	0	1	1
Appalachian Power Co	99	0	99
Cincinnati Gas & Electric Co	522	0	522
Columbus Southern Power Co	63	*	63
Consumers Energy Co	399	42	441
Crawfordsville Elec Lgt&Pwr Co	*	0	*
Dayton Power & Light Co	333	32	365
Detroit Edison Co	106	3	109
East Kentucky Power Coop Inc	25	–22	3
Hagerstown City of	*	0	*
Harrison County Rural E C C	0	*	*
Indiana Michigan Power Co	34	2	35
Indiana Municipal Power Agency	0	*	*
Indianapolis Power & Light Co	75	86	161
Kentucky Power Co	28	*	28
Kentucky Utilities Co	47	*	48
Kingsport Power Co	9	0	9
Lansing City of	*	0	*
Louisville Gas & Electric Co	4	10	14
Monongahela Power Co	260	5	264
Ohio Edison Co	203	*	203
Ohio Power Co	53	4	57
Owen Electric Coop Inc	2	0	2
Owensboro City of	0	22	22
Potomac Edison Co	441	–2	439
PSI Energy Inc	456	0	456
Southern Indiana Gas & Elec Co	76	0	76
Union Light Heat & Power Co	1	0	1
West Penn Power Co	279	–3	276
Wheeling Power Co	2	0	2
ECAR Total	**3,516**	**179**	**3,695**
ERCOT			
Austin City of	546	0	546
Brazos Electric Power Coop Inc	29	0	29
Bryan City of	18	*	18
Central Power & Light Co	134	0	134
College Station City of	1	2	2
Georgetown City of	*	0	*
Greenville Electric Util Sys	0	*	*
Houston Lighting & Power Co	242	–10	232
Lower Colorado River Authority	160	0	160
Magic Valley Electric Coop Inc	6	0	6
San Bernard Electric Coop Inc	*	0	*
San Marcos City of	11	0	11
Texas Utilities Electric Co	2,660	0	2,660
West Texas Utilities Co	68	0	68
ERCOT Total	**3,875**	**–8**	**3,866**
MAAC			
A & N Electric Coop	1	1	2
Allegheny Electric Coop Inc	0	*	*
Baltimore Gas & Electric Co	525	0	525
Delmarva Power & Light Co	131	0	131
Jersey Central Power&Light Co	244	0	244
Metropolitan Edison Co	75	18	93
Pennsylvania Electric Co	100	7	108
Pennsylvania Power & Light Co	93	0	93
Potomac Electric Power Co	1,432	142	1,575
Public Service Electric&Gas Co	831	0	831
Southern Maryland El Coop Inc	19	0	19
UGI Utilities Inc	*	0	*
MAAC Total	**3,451**	**169**	**3,620**
MAIN			
Central Illinois Light Co	1	0	1
Coles-Moultrie Electric Coop	0	*	*
Columbia City of	7	2	9
Commonwealth Edison Co	24	1	25

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, 1996

(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management [1]	Total DSM Programs
MAIN (Continued)			
Eastern Illini Electric Coop	1	2	3
Madison Gas & Electric Co	192	0	192
Manitowoc Public Utilities	14	0	14
Marshfield City of	5	0	5
Southeastern IL Elec Coop Inc	0	*	*
Southwestern Electric Coop Inc	0	1	1
Springfield City of	15	0	15
Union Electric Co	0	5	5
Wisconsin Electric Power Co	1,724	13	1,737
Wisconsin Power & Light Co	417	0	417
Wisconsin Public Power Inc Sys	35	1	36
Wisconsin Public Service Corp	543	3	546
MAIN Total	**2,979**	**28**	**3,007**
MAPP(U.S.)			
Ames City of	1	0	1
Anoka City of	1	*	1
Austin City of	5	1	6
Barron Electric Coop	1	5	5
Capital Electric Coop Inc	0	*	*
Cass County Electric Coop Inc	1	1	1
Cedar Falls City of	2	0	2
Central Iowa Power Coop	1	0	1
Central Power Elec Coop Inc	0	*	*
Chaska City of	0	*	*
Clark Electric Coop	*	3	3
Coop Power Assn	34	2	37
Eau Claire Electric Coop	*	*	*
Fairmont Public Utilities Comm	0	2	2
Freeborn-Mower Electric Coop	*	0	*
Grant-Lafayette Electric Coop	*	2	2
Interstate Power Co	131	0	131
Iowa Lakes Electric Coop	6	1	6
IES Utilities Inc	181	–18	163
Lincoln Electric System	7	0	7
Marshall City of	0	*	*
Midland Power Coop	*	0	*
MidAmerican Energy Co	293	5	298
Minnesota Power & Light Co	141	0	141
Moorhead City of	4	*	4
Mountrail-Williams Elec Coop	1	10	10
Municipal Energy Agency of NE	1	*	1
Muscatine City of	5	0	5
Nodak Electric Coop Inc	0	2	2
Northern States Power Co of MN	1,772	18	1,790
Northern States Power Co of WI	328	51	379
Northwest Iowa Power Coop	11	0	11
Northwestern Wisconsin Elec Co	2	0	2
Oakdale Electric Coop	*	*	*
Omaha Public Power District	6	0	6
Otter Tail Power Co	45	4	50
Owatonna City of	0	1	1
People 's Coop Power Assn	*	*	*
R S R Electric Coop Inc	0	*	*
Rice Lake Utilities	7	0	7
Rochester Public Utilities	3	1	4
Shakopee Public Utilities Comm	*	*	*

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, 1996

(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management [1]	Total DSM Programs
MAPP(U.S.) (Continued)			
Spencer City of	2	0	2
Superior Water Light&Power Co	4	0	4
Thief River Falls City of	1	0	1
Trempealeau Electric Coop	*	*	*
Tri-County Electric Coop	*	8	8
United Power Assn	29	14	43
Verendrye Electric Coop Inc	*	0	*
Vernon Electric Coop	*	2	2
York County Rural Pub Pwr Dist	0	10	10
MAPP(U.S.) Total	**3,028**	**125**	**3,153**
NPCC(U.S.)			
Bangor Hydro-Electric Co	53	0	53
Blackstone Valley Electric Co	37	0	37
Boston Edison Co	14	0	14
Braintree Town of	*	*	*
Burlington City of	37	0	37
Cambridge Electric Light Co	98	0	98
Central Hudson Gas & Elec Corp	143	*	144
Central Maine Power Co	464	0	464
Central Vermont Pub Serv Corp	92	0	92
Chicopee City of	7	0	7
Citizens Utilities Co	25	0	25
Commonwealth Electric Co	120	0	120
Concord Electric Co	7	0	7
Connecticut Light & Power Co	1,345	0	1,345
Connecticut Valley Elec Co Inc	4	0	4
Consolidated Edison Co-NY Inc	2,201	*	2,202
Eastern Edison Co	76	0	76
Exeter & Hampton Electric Co	8	0	8
Fitchburg Gas & Elec Light Co	13	0	13
Granite State Electric Co	39	0	39
Green Mountain Power Corp	64	0	64
Hingham City of	*	3	3
Holyoke City of	10	0	10
Jamestown City of	*	*	*
Littleton Town of	*	*	*
Long Island Lighting Co	733	0	733
Maine Public Service Co	7	1	7
Massachusetts Electric Co	951	0	951
Massena Town of	1	0	1
Narragansett Electric Co	255	0	255
New Hampshire Elec Coop Inc	2	3	5
New York State Elec & Gas Corp	623	0	623
Newport Electric Corp	17	0	17
Niagara Mohawk Power Corp	1,152	0	1,152
Norwood City of	5	0	5
Omya Inc	*	0	*
Orange & Rockland Utils Inc	235	4	239
Power Authority of State of NY	299	0	299
Public Service Co of NH	20	0	20
Reading Town of	*	*	*
Rochester Gas & Electric Corp	193	89	283
Shrewsbury Town of	5	0	5
Taunton City of	13	1	13
United Illuminating Co	270	9	279
Vermont Electric Coop Inc	1	0	1
Western Massachusetts Elec Co	270	0	270
NPCC(U.S.) Total	**9,912**	**110**	**10,022**
SERC			
Aiken Electric Coop Inc	2	0	2
Alabama Electric Coop Inc	39	4	43
Alabama Power Co	27	–589	–562
Albemarle City of	0	*	*
Altamaha Electric Member Corp	*	*	*

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, 1996

(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management [1]	Total DSM Programs
SERC (Continued)			
Amicalola Electric Member Corp	*	*	*
Berkeley Electric Coop Inc	8	*	7
Black River Electric Coop Inc	2	0	2
Brunswick Electric Member Corp	*	*	*
BARC Electric Coop Inc	0	*	*
Camden City of	0	*	*
Carolina Power & Light Co	2,044	0	2,044
Carroll Electric Member Corp	*	0	*
Central Georgia El Member Corp	4	0	4
Central Virginia Electric Coop	0	1	1
Choctawhatche Elec Coop Inc	5	1	6
Cobb Electric Membership Corp	23	0	23
Colquitt Electric Members Corp	0	*	*
Community Electric Coop	0	*	*
Coweta-Fayette El Member Corp	61	0	61
Douglas City of	*	1	1
Duke Power Co	203	0	203
Easley Combined Utility System	0	1	1
East Point City of	0	*	*
Excelsior Electric Member Corp	*	0	*
Fairfield Electric Coop Inc	1	0	1
Fitzgerald Wtr Lgt & Bond Comm	0	*	*
Flint Electric Membership Corp	1	*	1
Florida Keys El Coop Assn Inc	0	*	*
Florida Power & Light Co	3,800	26	3,826
Florida Power Corp	691	426	1,117
Fort Pierce Utilities Auth	1	0	1
Gainesville Regional Utilities	31	32	62
Georgia Power Co	260	0	260
Grady County Elec Member Corp	*	*	*
Greenville Utilities Comm	17	0	17
Greer Comm of Public Works	0	*	*
Gulf Power Co	463	–69	394
Haywood Electric Member Corp	*	*	*
Jackson Electric Member Corp	0	1	1
Jacksonville Electric Auth	39	0	39
Jefferson Electric Member Corp	*	*	1
Jones-Onslow Elec Member Corp	3	2	5
Kissimmee Utility Authority	4	3	7
Lakeland City of	1	*	1
Laurens Electric Coop Inc	*	*	*
Laurinburg City of	0	*	*
Lawrenceville City of	0	*	*
Lee County Electric Coop Inc	27	0	27
Leesburg City of	0	*	*
Lumberton City of	0	*	*
Lynches River Elec Coop Inc	1	0	1
Manassas City of	0	*	*
Mecklenburg Electric Coop Inc	0	*	*
Mid-Carolina Electric Coop Inc	4	0	4
Mississippi Power Co	11	0	11
Mitchell Electric Member Corp	0	1	1
Municipal Electric Authority	0	12	12
New Bern City of	0	22	22
Northern Neck Elec Coop Inc	0	*	*
Northern Virginia Elec Coop	*	*	*
Ocmulgee Electric Member Corp	0	*	*
Orangeburg City of	0	*	*
Orlando Utilities Comm	92	0	92
Palmetto Electric Coop Inc	2	2	4
Pee Dee Electric Coop Inc	1	0	1
Planters Electric Member Corp	*	0	*
Rayle Electric Membership Corp	*	0	*
Reedy Creek Improvement Dist	*	*	*
Rock Hill City of	0	1	1
Satilla Rural Elec Member Corp	*	*	*
Savannah Electric & Power Co	15	0	15

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, 1996

(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management [1]	Total DSM Programs
SERC (Continued)			
Sawnee Electric Members Corp	2	0	2
Shenandoah Valley Elec Coop	0	1	1
Singing River Elec Power Assn	4	2	6
South Carolina Electric&Gas Co	193	2	194
South Carolina Pub Serv Auth	42	0	42
South Mississippi El Pwr Assn	25	0	25
Sumter Electric Coop Inc	22	*	22
Tallahassee City of	73	46	119
Tampa Electric Co	218	1	220
Tennessee Valley Authority	1,696	0	1,696
Thomasville City of	*	*	*
Tri-County Elec Member Corp	0	*	*
Tri-County Elec Member Corp	0	*	*
Virginia Electric & Power Co	295	8	303
Wilson City of	0	7	7
Withlacoochee River Elec Coop	3	*	4
York Electric Coop Inc	*	*	*
SERC Total	**10,455**	**–51**	**10,404**
SPP			
Carroll Electric Coop Corp	0	*	*
Central Rural Electric Coop	3	0	3
Craighead Electric Coop Corp	0	*	*
Farmers ' Electric Coop Inc	0	*	*
First Electric Coop Corp	5	1	6
Independence City of	3	0	3
Kansas City City of	0	1	1
Kansas Electric Power Coop Inc	0	3	3
North Arkansas Elec Coop Inc	0	*	*
Northeast Louisiana Power Coop	0	10	10
Oklahoma Gas & Electric Co	121	0	121
Ozark Electric Coop Inc	6	0	6
Petit Jean Electric Coop Corp	0	*	*
Red River Valley Rrl Elec Assn	2	2	4
South Central Ark El Coop Inc	0	3	3
South Plains Electric Coop Inc	8	*	8
Southwestern Electric Power Co	48	0	48
Southwestern Public Service Co	135	6	141
Stillwater Utilities Authority	0	*	*
White River Valley El Coop Inc	0	*	*
SPP Total	**332**	**27**	**358**
WSCC(U.S.)			
Alameda City of	10	0	10
Anaheim City of	31	6	37
Arizona Electric Pwr Coop Inc	*	0	*
Arizona Public Service Co	545	0	545
Bonneville Power Admin	3,886	870	4,756
Boulder City City of	6	0	6
Bountiful City City of	*	*	*
Canby Utility Board	*	0	*
Colorado Springs City of	*	0	*
Columbia River Peoples Ut Dist	6	0	6
El Paso Electric Co	23	16	39
Ellensburg City of	15	0	15
Emerald People 's Utility Dist	12	0	12
Eugene City of	231	0	231
Forest Grove City of	8	0	8
Idaho Power Co	185	0	185
Imperial Irrigation District	9	*	9
Longmont City of	3	13	16
Los Angeles City of	273	0	273
Loveland City of	*	3	3
Modesto Irrigation District	14	0	14
Montana Power Co	250	0	250

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, 1996

(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Energy Efficiency	Load Management [1]	Total DSM Programs
WSCC(U.S.) (Continued)			
Mountain View Elec Assn Inc	0	*	*
Navopache Electric Coop Inc	*	2	2
Nevada Power Co	151	0	151
Pacific Gas & Electric Co	3,021	0	3,021
PacifiCorp	1,021	236	1,257
Palo Alto City of	12	0	12
Pasadena City of	25	0	25
Portland General Electric Co	738	0	738
Poudre Valley R E A Inc	1	0	1
Public Service Co of Colorado	332	0	332
Puget Sound Power & Light Co	1,835	0	1,835
PUD No 1 of Benton County	4	0	4
PUD No 1 of Clark County	4	8	12
PUD No 1 of Pend Oreille Cnty	8	0	8
PUD No 2 of Grant County	91	136	227
Redding City of	*	*	*
Roseville City of	6	0	6
Sacramento Municipal Util Dist	648	0	648
Salem Electric Coop	2	0	2
Salt River Proj Ag I & P Dist	64	85	149
San Diego Gas & Electric Co	980	1	981
San Miguel Power Assn Inc	0	*	*
Santa Clara City of	0	*	*
Seattle City of	525	0	525
Southern California Edison Co	6,185	0	6,185
Springfield City of	80	0	80
Sulphur Springs Valley E C Inc	0	*	*
Tacoma City of	410	0	410
Trico Electric Coop Inc	0	*	*
Tucson Electric Power Co	96	0	96
Turlock Irrigation District	15	0	15
United Power Inc	*	–2	–2
Utah Municipal Power Agency	5	0	5
Vernon City of	0	3	3
Washington Water Power Co	508	0	508
Yellowstone Valley Elec Co-op	0	9	9
WSCC(U.S.) Total	**22,277**	**1,386**	**23,663**
Contiguous U.S.	**59,825**	**1,964**	**61,789**
ASCC			
Alaska Electric Light&Power Co	0	*	*
Golden Valley Elec Assn Inc	5	0	5
ASCC Total	**5**	*****	**5**
Hawaii			
Hawaii Electric Light Co Inc	9	0	9
Hawaiian Electric Co Inc	12	0	12
Maui Electric Co Ltd	2	26	28
Hawaii Total	**23**	**26**	**49**
U.S. Total	**59,853**	**1,989**	**61,842**

[1] 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 megawatthours. •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, 1996

(Million Kilowatthours)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
ECAR						
American Mun Power-Ohio Inc	Publicly Owned	0	0	1	*	1
Appalachian Power Co	Investor-Owned	89	5	5	0	99
Cincinnati Gas & Electric Co	Investor-Owned	3	429	89	0	522
Columbus Southern Power Co	Investor-Owned	58	4	*	0	63
Consumers Energy Co	Investor-Owned	74	95	271	0	441
Crawfordsville Elec Lgt&Pwr Co	Publicly Owned	*	0	0	*	*
Dayton Power & Light Co	Investor-Owned	119	92	154	0	365
Detroit Edison Co	Investor-Owned	23	63	23	0	109
East Kentucky Power Coop Inc	Cooperative	3	0	0	0	3
Hagerstown City of	Publicly Owned	*	0	0	0	*
Harrison County Rural E C C	Cooperative	0	0	0	0	0
Indiana Michigan Power Co	Investor-Owned	24	6	6	0	35
Indiana Municipal Power Agency	Publicly Owned	*	0	0	0	*
Indianapolis Power & Light Co	Investor-Owned	18	55	88	0	161
Kentucky Power Co	Investor-Owned	27	*	*	0	28
Kentucky Utilities Co	Investor-Owned	46	1	1	0	48
Kingsport Power Co	Investor-Owned	9	0	0	0	9
Lansing City of	Publicly Owned	0	*	0	0	*
Louisville Gas & Electric Co	Investor-Owned	1	4	10	0	14
Monongahela Power Co	Investor-Owned	74	80	110	0	264
Ohio Edison Co	Investor-Owned	102	58	43	0	203
Ohio Power Co	Investor-Owned	49	3	5	0	57
Owen Electric Coop Inc	Cooperative	1	*	1	0	2
Owensboro City of	Publicly Owned	0	0	22	0	22
Potomac Edison Co	Investor-Owned	192	142	104	0	439
PSI Energy Inc	Investor-Owned	96	229	128	3	456
Southern Indiana Gas & Elec Co	Investor-Owned	8	29	39	0	76
Union Light Heat & Power Co	Investor-Owned	0	1	*	0	1
West Penn Power Co	Investor-Owned	36	89	151	0	276
Wheeling Power Co	Investor-Owned	2	0	0	0	2
ECAR Total		**1,057**	**1,386**	**1,250**	**3**	**3,695**
ERCOT						
Austin City of	Publicly Owned	222	324	0	0	546
Brazos Electric Power Coop Inc	Cooperative	28	*	0	0	29
Bryan City of	Publicly Owned	18	*	*	*	18
Central Power & Light Co	Investor-Owned	93	40	0	0	134
College Station City of	Publicly Owned	1	2	0	0	2
Georgetown City of	Publicly Owned	*	0	0	0	*
Greenville Electric Util Sys	Publicly Owned	0	0	*	0	*
Houston Lighting & Power Co	Investor-Owned	98	121	13	0	232
Lower Colorado River Authority	Publicly Owned	137	23	0	0	160
Magic Valley Electric Coop Inc	Cooperative	6	0	0	0	6
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	1,139	1,521	0	0	2,660
West Texas Utilities Co	Investor-Owned	8	10	50	0	68
ERCOT Total		**1,759**	**2,044**	**63**	*****	**3,866**
MAAC						
A & N Electric Coop	Cooperative	2	0	0	0	2
Allegheny Electric Coop Inc	Cooperative	*	0	0	0	*
Baltimore Gas & Electric Co	Investor-Owned	35	489	0	0	525
Delmarva Power & Light Co	Investor-Owned	40	91	0	0	131
Jersey Central Power&Light Co	Investor-Owned	78	167	0	0	244
Metropolitan Edison Co	Investor-Owned	79	6	8	0	93
Pennsylvania Electric Co	Investor-Owned	33	25	49	0	108
Pennsylvania Power & Light Co	Investor-Owned	79	5	1	7	93
Potomac Electric Power Co	Investor-Owned	172	1,402	0	0	1,575
Public Service Electric&Gas Co	Investor-Owned	99	570	162	0	831
Southern Maryland El Coop Inc	Cooperative	19	0	0	0	19
UGI Utilities Inc	Investor-Owned	*	0	0	0	*
MAAC Total		**637**	**2,755**	**221**	**7**	**3,620**
MAIN						
Central Illinois Light Co	Investor-Owned	1	0	0	0	1
Coles-Moultrie Electric Coop	Cooperative	0	0	*	0	*
Columbia City of	Publicly Owned	6	3	0	0	9
Commonwealth Edison Co	Investor-Owned	0	25	1	0	25

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, 1996

(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
MAIN (Continued)						
Eastern Illini Electric Coop	Cooperative	3	0	*	0	3
Madison Gas & Electric Co	Investor-Owned	30	140	0	22	192
Manitowoc Public Utilities	Publicly Owned	4	5	5	0	14
Marshfield City of	Publicly Owned	*	4	1	*	5
Southeastern IL Elec Coop Inc	Cooperative	*	0	0	0	*
Southwestern Electric Coop Inc	Cooperative	*	*	*	0	1
Springfield City of	Publicly Owned	4	11	0	0	15
Union Electric Co	Investor-Owned	0	0	5	0	5
Wisconsin Electric Power Co	Investor-Owned	525	811	401	0	1,737
Wisconsin Power & Light Co	Investor-Owned	48	349	0	21	417
Wisconsin Public Power Inc Sys	Publicly Owned	6	12	18	0	36
Wisconsin Public Service Corp	Investor-Owned	129	382	0	36	546
MAIN Total		**757**	**1,741**	**430**	**79**	**3,007**
MAPP(U.S.)						
Ames City of	Publicly Owned	0	*	0	1	1
Anoka City of	Publicly Owned	*	*	1	0	1
Austin City of	Publicly Owned	1	5	*	0	6
Barron Electric Coop	Cooperative	5	0	1	0	5
Capital Electric Coop Inc	Cooperative	*	*	0	0	*
Cass County Electric Coop Inc	Cooperative	1	*	*	0	1
Cedar Falls City of	Publicly Owned	1	1	0	*	2
Central Iowa Power Coop	Cooperative	1	0	0	0	1
Central Power Elec Coop Inc	Cooperative	0	*	0	0	*
Chaska City of	Publicly Owned	0	0	*	*	*
Clark Electric Coop	Cooperative	3	0	*	0	3
Coop Power Assn	Cooperative	8	29	0	0	37
Eau Claire Electric Coop	Cooperative	*	0	*	0	*
Fairmont Public Utilities Comm	Publicly Owned	0	0	2	0	2
Freeborn-Mower Electric Coop	Cooperative	*	0	*	0	*
Grant-Lafayette Electric Coop	Cooperative	2	0	0	0	2
Interstate Power Co	Investor-Owned	8	32	91	0	131
Iowa Lakes Electric Coop	Cooperative	6	0	1	*	6
IES Utilities Inc	Investor-Owned	13	90	60	0	163
Lincoln Electric System	Publicly Owned	1	6	0	0	7
Marshall City of	Publicly Owned	0	*	*	0	*
Midland Power Coop	Cooperative	*	0	0	0	*
MidAmerican Energy Co	Investor-Owned	43	235	20	0	298
Minnesota Power & Light Co	Investor-Owned	10	66	66	0	141
Moorhead City of	Publicly Owned	*	4	0	0	4
Mountrail-Williams Elec Coop	Cooperative	10	0	0	0	10
Municipal Energy Agency of NE	Publicly Owned	1	*	*	0	1
Muscatine City of	Publicly Owned	2	4	0	*	5
Nodak Electric Coop Inc	Cooperative	1	*	*	*	2
Northern States Power Co of MN	Investor-Owned	229	1,107	454	0	1,790
Northern States Power Co of WI	Investor-Owned	112	153	108	6	379
Northwest Iowa Power Coop	Cooperative	11	*	0	0	11
Northwestern Wisconsin Elec Co	Investor-Owned	*	1	1	0	2
Oakdale Electric Coop	Cooperative	*	0	*	0	*
Omaha Public Power District	Publicly Owned	3	3	0	0	6
Otter Tail Power Co	Investor-Owned	10	19	21	0	50
Owatonna City of	Publicly Owned	*	1	*	0	1
People 's Coop Power Assn	Cooperative	*	0	*	0	*
R S R Electric Coop Inc	Cooperative	*	0	0	0	*
Rice Lake Utilities	Publicly Owned	6	1	1	0	7
Rochester Public Utilities	Publicly Owned	*	2	2	0	4
Shakopee Public Utilities Comm	Publicly Owned	*	*	0	*	*
Spencer City of	Publicly Owned	1	1	0	*	2
Superior Water Light&Power Co	Investor-Owned	1	1	2	0	4
Thief River Falls City of	Publicly Owned	1	*	0	0	1
Trempealeau Electric Coop	Cooperative	*	*	0	0	*
Tri-County Electric Coop	Cooperative	8	0	*	0	8
United Power Assn	Cooperative	25	17	0	0	43
Verendrye Electric Coop Inc	Cooperative	*	0	0	0	*
Vernon Electric Coop	Cooperative	2	0	0	0	2
York County Rural Pub Pwr Dist	Publicly Owned	0	0	10	0	10
MAPP(U.S.) Total		525	1,780	839	8	3,153

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, 1996

(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
NPCC(U.S.)						
Bangor Hydro-Electric Co	Investor-Owned	**34**	**16**	**4**	**0**	**53**
Blackstone Valley Electric Co	Investor-Owned	7	10	21	0	37
Boston Edison Co	Investor-Owned	4	8	2	0	14
Braintree Town of	Publicly Owned	0	0	*	0	*
Burlington City of	Publicly Owned	18	4	15	0	37
Cambridge Electric Light Co	Investor-Owned	*	98	0	0	98
Central Hudson Gas & Elec Corp	Investor-Owned	11	96	36	0	144
Central Maine Power Co	Investor-Owned	114	114	235	1	464
Central Vermont Pub Serv Corp	Investor-Owned	30	44	19	0	92
Chicopee City of	Publicly Owned	*	4	2	0	7
Citizens Utilities Co	Investor-Owned	10	8	7	0	25
Commonwealth Electric Co	Investor-Owned	13	107	0	0	120
Concord Electric Co	Investor-Owned	2	2	3	0	7
Connecticut Light & Power Co	Investor-Owned	304	854	181	7	1,345
Connecticut Valley Elec Co Inc	Investor-Owned	1	2	1	0	4
Consolidated Edison Co-NY Inc	Investor-Owned	208	1,994	0	0	2,202
Eastern Edison Co	Investor-Owned	31	33	13	0	76
Exeter & Hampton Electric Co	Investor-Owned	3	2	2	0	8
Fitchburg Gas & Elec Light Co	Investor-Owned	1	4	8	0	13
Granite State Electric Co	Investor-Owned	6	21	13	0	39
Green Mountain Power Corp	Investor-Owned	10	54	0	0	64
Hingham City of	Publicly Owned	3	*	0	0	3
Holyoke City of	Publicly Owned	7	*	*	3	10
Jamestown City of	Publicly Owned	0	*	*	0	*
Littleton Town of	Publicly Owned	*	0	0	0	*
Long Island Lighting Co	Investor-Owned	157	576	0	0	733
Maine Public Service Co	Investor-Owned	3	3	0	2	7
Massachusetts Electric Co	Investor-Owned	142	501	307	0	951
Massena Town of	Publicly Owned	0	0	0	1	1
Narragansett Electric Co	Investor-Owned	25	142	87	0	255
New Hampshire Elec Coop Inc	Cooperative	4	1	0	0	5
New York State Elec & Gas Corp	Investor-Owned	166	457	0	0	623
Newport Electric Corp	Investor-Owned	9	6	2	0	17
Niagara Mohawk Power Corp	Investor-Owned	276	774	102	0	1,152
Norwood City of	Publicly Owned	1	1	3	0	5
Omya Inc	Investor-Owned	*	0	0	0	*
Orange & Rockland Utils Inc	Investor-Owned	81	158	0	0	239
Power Authority of State of NY	Publicly Owned	40	252	7	0	299
Public Service Co of NH	Investor-Owned	8	4	8	0	20
Reading Town of	Publicly Owned	*	*	0	0	*
Rochester Gas & Electric Corp	Investor-Owned	1	0	282	0	283
Shrewsbury Town of	Publicly Owned	1	4	0	*	5
Taunton City of	Publicly Owned	1	12	0	0	13
United Illuminating Co	Investor-Owned	74	161	41	2	279
Vermont Electric Coop Inc	Cooperative	*	*	0	*	1
Western Massachusetts Elec Co	Investor-Owned	75	145	45	5	270
NPCC(U.S.) Total		1,883	6,675	1,445	20	10,022
SERC						
Aiken Electric Coop Inc	Cooperative	**2**	**0**	**0**	**0**	**2**
Alabama Electric Coop Inc	Cooperative	43	0	0	0	43
Alabama Power Co	Investor-Owned	–589	27	0	0	–562
Albemarle City of	Publicly Owned	0	0	*	0	*
Altamaha Electric Member Corp	Cooperative	*	*	0	0	*
Amicalola Electric Member Corp	Cooperative	*	0	0	0	*
Berkeley Electric Coop Inc	Cooperative	7	0	0	0	7
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	0	0
Camden City of	Publicly Owned	*	*	0	0	*
Carolina Power & Light Co	Investor-Owned	790	369	885	0	2,044
Carroll Electric Member Corp	Cooperative	*	0	0	0	*
Central Georgia El Member Corp	Cooperative	4	0	0	0	4
Central Virginia Electric Coop	Cooperative	0	*	0	*	1
Choctawhatche Elec Coop Inc	Cooperative	6	0	0	0	6
Cobb Electric Membership Corp	Cooperative	23	0	0	0	23
Colquitt Electric Members Corp	Cooperative	*	*	*	0	*
Community Electric Coop	Cooperative	0	0	0	0	0

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, 1996

(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
SERC (Continued)						
Coweta-Fayette El Member Corp	Cooperative	61	0	0	0	61
Douglas City of	Publicly Owned	*	*	*	0	1
Duke Power Co	Investor-Owned	106	80	17	0	203
Easley Combined Utility System	Publicly Owned	0	0	0	1	1
East Point City of	Publicly Owned	*	*	0	0	*
Excelsior Electric Member Corp	Cooperative	0	0	0	0	0
Fairfield Electric Coop Inc	Cooperative	1	0	0	0	1
Fitzgerald Wtr Lgt & Bond Comm	Publicly Owned	*	0	0	0	*
Flint Electric Membership Corp	Cooperative	1	0	0	0	1
Florida Keys El Coop Assn Inc	Cooperative	*	0	0	0	*
Florida Power & Light Co	Investor-Owned	2,141	1,685	0	0	3,826
Florida Power Corp	Investor-Owned	173	200	675	68	1,117
Fort Pierce Utilities Auth	Publicly Owned	1	0	0	0	1
Gainesville Regional Utilities	Publicly Owned	42	21	0	0	62
Georgia Power Co	Investor-Owned	206	46	8	0	260
Grady County Elec Member Corp	Cooperative	0	0	0	0	0
Greenville Utilities Comm	Publicly Owned	17	0	0	0	17
Greer Comm of Public Works	Publicly Owned	*	0	0	0	*
Gulf Power Co	Investor-Owned	241	212	–69	10	394
Haywood Electric Member Corp	Cooperative	*	0	0	0	*
Jackson Electric Member Corp	Cooperative	1	*	*	0	1
Jacksonville Electric Auth	Publicly Owned	30	9	*	0	39
Jefferson Electric Member Corp	Cooperative	*	*	*	*	1
Jones-Onslow Elec Member Corp	Cooperative	5	1	0	0	5
Kissimmee Utility Authority	Publicly Owned	5	1	0	1	7
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	0	0	0	*
Lee County Electric Coop Inc	Cooperative	24	3	0	0	27
Leesburg City of	Publicly Owned	*	0	*	0	*
Lumberton City of	Publicly Owned	0	0	0	0	0
Lynches River Elec Coop Inc	Cooperative	1	0	0	0	1
Manassas City of	Publicly Owned	*	0	0	0	*
Mecklenburg Electric Coop Inc	Cooperative	*	0	0	0	*
Mid-Carolina Electric Coop Inc	Cooperative	4	0	0	0	4
Mississippi Power Co	Investor-Owned	11	0	0	0	11
Mitchell Electric Member Corp	Cooperative	*	1	0	0	1
Municipal Electric Authority	Publicly Owned	3	1	8	0	12
New Bern City of	Publicly Owned	11	*	11	0	22
Northern Neck Elec Coop Inc	Cooperative	*	*	0	0	*
Northern Virginia Elec Coop	Cooperative	*	*	*	0	*
Ocmulgee Electric Member Corp	Cooperative	*	*	0	0	*
Orangeburg City of	Publicly Owned	0	0	*	0	*
Orlando Utilities Comm	Publicly Owned	27	65	0	0	92
Palmetto Electric Coop Inc	Cooperative	3	1	0	0	4
Pee Dee Electric Coop Inc	Cooperative	1	0	0	0	1
Planters Electric Member Corp	Cooperative	0	0	0	0	0
Rayle Electric Membership Corp	Cooperative	0	0	0	0	0
Reedy Creek Improvement Dist	Publicly Owned	0	*	0	0	*
Rock Hill City of	Publicly Owned	1	0	0	0	1
Satilla Rural Elec Member Corp	Cooperative	*	0	0	0	*
Savannah Electric & Power Co	Investor-Owned	14	*	0	0	15
Sawnee Electric Members Corp	Cooperative	2	0	0	0	2
Shenandoah Valley Elec Coop	Cooperative	1	0	0	0	1
Singing River Elec Power Assn	Cooperative	4	0	2	0	6
South Carolina Electric&Gas Co	Investor-Owned	155	34	5	0	194
South Carolina Pub Serv Auth	Publicly Owned	41	1	0	0	42
South Mississippi El Pwr Assn	Cooperative	25	0	0	0	25
Sumter Electric Coop Inc	Cooperative	17	5	0	0	22
Tallahassee City of	Publicly Owned	117	2	0	0	119
Tampa Electric Co	Investor-Owned	162	37	4	16	220
Tennessee Valley Authority	Federal	1,696	0	0	0	1,696
Thomasville City of	Publicly Owned	*	*	0	0	*
Tri-County Elec Member Corp	Cooperative	0	0	0	0	0
Tri-County Elec Member Corp	Cooperative	*	*	0	0	*
Virginia Electric & Power Co	Investor-Owned	146	135	21	1	303
Wilson City of	Publicly Owned	1	*	6	*	7

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, 1996

(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
SERC (Continued)						
Withlacoochee River Elec Coop	Cooperative	4	0	0	0	4
York Electric Coop Inc	Cooperative	*	*	*	0	*
SERC Total		5,794	2,938	1,574	97	10,404
SPP						
Carroll Electric Coop Corp	Cooperative	*	0	0	0	*
Central Rural Electric Coop	Cooperative	3	0	0	0	3
Craighead Electric Coop Corp	Cooperative	0	0	*	0	*
Farmers ' Electric Coop Inc	Cooperative	0	*	*	0	*
First Electric Coop Corp	Cooperative	6	0	*	0	6
Independence City of	Publicly Owned	3	0	0	0	3
Kansas City City of	Publicly Owned	*	*	0	0	1
Kansas Electric Power Coop Inc	Cooperative	*	1	0	1	3
North Arkansas Elec Coop Inc	Cooperative	0	0	0	0	0
Northeast Louisiana Power Coop	Cooperative	0	10	0	0	10
Oklahoma Gas & Electric Co	Investor-Owned	121	0	0	0	121
Ozark Electric Coop Inc	Cooperative	6	0	0	0	6
Petit Jean Electric Coop Corp	Cooperative	*	0	0	0	*
Red River Valley Rrl Elec Assn	Cooperative	2	*	1	0	4
South Central Ark El Coop Inc	Cooperative	0	0	3	0	3
South Plains Electric Coop Inc	Cooperative	7	0	0	1	8
Southwestern Electric Power Co	Investor-Owned	48	0	0	0	48
Southwestern Public Service Co	Investor-Owned	126	0	9	6	141
Stillwater Utilities Authority	Publicly Owned	0	0	*	0	*
White River Valley El Coop Inc	Cooperative	0	*	0	0	*
SPP Total		324	12	14	8	358
WSCC(U.S.)						
Alameda City of	Publicly Owned	1	7	0	3	10
Anaheim City of	Publicly Owned	7	21	9	0	37
Arizona Electric Pwr Coop Inc	Cooperative	0	0	0	0	0
Arizona Public Service Co	Investor-Owned	417	129	0	0	545
Bonneville Power Admin	Federal	2,237	1,146	731	642	4,756
Boulder City City of	Publicly Owned	4	2	0	0	6
Bountiful City City of	Publicly Owned	*	*	*	0	*
Canby Utility Board	Publicly Owned	*	*	0	0	*
Colorado Springs City of	Publicly Owned	0	*	*	0	*
Columbia River Peoples Ut Dist	Publicly Owned	5	1	0	0	6
El Paso Electric Co	Investor-Owned	*	38	0	0	39
Ellensburg City of	Publicly Owned	13	3	0	0	15
Emerald People 's Utility Dist	Publicly Owned	5	2	5	0	12
Eugene City of	Publicly Owned	162	45	23	1	231
Forest Grove City of	Publicly Owned	3	4	1	0	8
Idaho Power Co	Investor-Owned	73	32	51	28	185
Imperial Irrigation District	Publicly Owned	7	2	0	0	9
Longmont City of	Publicly Owned	2	11	2	0	16
Los Angeles City of	Publicly Owned	81	109	50	32	273
Loveland City of	Publicly Owned	*	0	0	3	3
Modesto Irrigation District	Publicly Owned	2	12	0	0	14
Montana Power Co	Investor-Owned	65	138	27	20	250
Mountain View Elec Assn Inc	Cooperative	0	*	0	0	*
Navopache Electric Coop Inc	Cooperative	2	*	*	0	2
Nevada Power Co	Investor-Owned	15	136	0	0	151
Pacific Gas & Electric Co	Investor-Owned	502	1,670	523	325	3,021
PacifiCorp	Investor-Owned	484	215	558	0	1,257
Palo Alto City of	Publicly Owned	1	11	0	0	12
Pasadena City of	Publicly Owned	5	21	0	0	25
Portland General Electric Co	Investor-Owned	219	360	159	0	738
Poudre Valley R E A Inc	Cooperative	*	*	0	0	1
Public Service Co of Colorado	Investor-Owned	18	148	167	0	332
Puget Sound Power & Light Co	Investor-Owned	943	707	156	29	1,835
PUD No 1 of Benton County	Publicly Owned	4	0	0	0	4
PUD No 1 of Clark County	Publicly Owned	12	1	0	0	12
PUD No 1 of Pend Oreille Cnty	Publicly Owned	2	*	5	0	8
PUD No 2 of Grant County	Publicly Owned	18	4	154	50	227
Redding City of	Publicly Owned	*	*	0	0	*
Roseville City of	Publicly Owned	1	3	3	0	6
Sacramento Municipal Util Dist	Publicly Owned	229	420	0	0	648

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, 1996

(Million Kilowatthours) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
WSCC(U.S.) (Continued)						
Salem Electric Coop	Cooperative	2	0	0	0	2
Salt River Proj Ag I & P Dist	Publicly Owned	86	63	0	0	149
San Diego Gas & Electric Co	Investor-Owned	160	821	0	0	981
San Miguel Power Assn Inc	Cooperative	0	*	0	0	*
Santa Clara City of	Publicly Owned	0	0	*	0	*
Seattle City of	Publicly Owned	192	264	43	26	525
Southern California Edison Co	Investor-Owned	1,206	3,004	1,782	193	6,185
Springfield City of	Publicly Owned	58	14	9	0	80
Sulphur Springs Valley E C Inc	Cooperative	0	0	0	*	*
Tacoma City of	Publicly Owned	122	144	144	*	410
Trico Electric Coop Inc	Cooperative	0	0	*	0	*
Tucson Electric Power Co	Investor-Owned	14	81	0	0	96
Turlock Irrigation District	Publicly Owned	7	3	5	0	15
United Power Inc	Cooperative	–2	*	0	0	–2
Utah Municipal Power Agency	Publicly Owned	*	2	0	3	5
Vernon City of	Publicly Owned	0	0	3	0	3
Washington Water Power Co	Investor-Owned	445	42	21	0	508
Yellowstone Valley Elec Co-op	Cooperative	9	0	0	0	9
WSCC(U.S.) Total		7,840	9,835	4,633	1,356	23,663
Contiguous U.S.		**20,575**	**29,166**	**10,469**	**1,578**	**61,789**
ASCC						
Alaska Electric Light&Power Co	Investor-Owned	**0**	*****	**0**	**0**	*****
Golden Valley Elec Assn Inc	Cooperative	3	1	*	0	5
ASCC Total		3	1	*	0	5
Hawaii						
Hawaii Electric Light Co Inc	Investor-Owned	**5**	**3**	**0**	**0**	**9**
Hawaiian Electric Co Inc	Investor-Owned	1	11	0	0	12
Maui Electric Co Ltd	Investor-Owned	*	4	23	0	28
Hawaii Total		7	19	23	0	49
U.S. Total		**20,585**	**29,186**	**10,493**	**1,578**	**61,842**

* 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 Reductions

One of the main goals of DSM programs is to reduce a utility's peak load through energy efficiency and load control programs. Peak load reductions (measured in megawatts (MW)) are categorized as potential or actual. Potential peak load reductions are 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 reductions are 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 reductions that result from energy efficiency programs at the time of peak load.

Utilities are required to report both 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 only required to report actual peak load reductions from energy efficiency programs. Actual and potential peak load reductions are generally the same for energy efficiency programs. These programs are focused on reducing energy consumption and operate over many hours during the year and not 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 peak load reductions.[8]

Annual Effects for Actual Peak Load Reductions

In 1996, actual peak load reductions were 29,893 MW. Actual peak load reductions are predicted by utilities to increase to 32,361 MW in 1997 and to 36,892 MW in 2001 (Table 12).

For the 1996 reporting year, investor-owned utilities accounted for 73.9 percent of actual peak load reductions. Publicly owned utilities accounted for 9.2 percent, followed by cooperatives with 9.2 percent, and Federally owned with 7.8 percent. Utility forecasts indicated that investor-owned utilities are expected to increase actual peak load reductions by 11.7 percent in 1997 and to increase at an annual rate of 3.2 percent through 2001. In 2001, cooperatives are expected to provide 8.6 percent of actual peak load reductions and publicly owned utilities are expected to provide 7.9 percent (Table 12).[9] 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 reductions 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 1996 accounted for 87.8 percent of the total peak load reduction. The 50 utilities with the greatest peak load reductions accounted for 76.3 percent of the total, and the top 25 utilities accounted for 62.1 percent (Figure 6). These 100, 50, and 25 utilities with the greatest actual peak load reductions represented 53.4, 38.0, and 26.5 percent, respectively, of total retail sales of electricity in the United States in 1996.

Energy efficiency programs accounted for the greatest share of actual peak load reductions, 47.6 percent of the 29,893 MW of total actual peak load reductions. Interruptible load, primarily an industrial sector program, contributed 24.7 percent of the total (Figure 7). Direct load control programs accounted for 18.6 percent of actual peak load reductions. Other load management and other DSM programs combined for the remaining 9.0 percent of total peak load reductions (Table 13). Interruptible load control programs decreased 12 percent from 1995 to 1996. The actual peak load reductions that are predicted for 1997 and 2001 indicate increases in all categories except other DSM and other load management where a decrease is predicted for 1997. The greatest increase from 1996 to 1997 is predicted for the interruptible load program category, an increase of 1,456 MW. The greatest percentage of increase from 1996 to 1997, 19.7 percent, is expected from the interruptible program category. From 1997 to 2001, the average annual increase for actual peak load reductions is expected to be approximately 3.3 percent, with the greatest average annual growth rate predicted for direct load control programs at 4.9 percent (Tables 13 and 18).

[8] Incremental peak load reductions and energy savings are those caused by new programs and new participants in existing programs for the current reporting year.

[9] 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 1996, the residential sector accounted for 38.4 percent of actual peak load reductions; the commercial sector, 29.0 percent; the industrial sector, 30.4 percent; and the "other" sector, 2.2 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 1995 to 1996 was in the "other" sector with 21.3 percent. The residential sector increased actual peak load reductions 4.9 percent and the commercial sector increased 7.7 percent, while the industrial sector decreased by 9.5 percent (Tables 14 and 20).

The NERC region with the greatest actual peak load reductions in 1996 was SERC with 34.1 percent of total U.S. peak load reductions, 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 17.2 percent of the total peak load reductions for 1996. The greatest increase in peak load reductions at 368 MW occurred in the MAIN region, which also had the greatest percentage of increase at 29.3 percent. For 1997, the MAAC region is predicted to increase another 41.3 percent. From 1997 to 2001, the MAIN region is predicted to increase at an annual rate of 10.5 percent (Table 18).

Potential Peak Load Reductions

In 1996, potential peak load reductions increased 2.9 percent to 48,344 MW. For 1997, potential reductions are predicted to increase 3.4 percent to 49,993 MW and to 54,968 MW by 2001.

In 1996, investor-owned utilities accounted for 72.5 percent of the total potential peak load reduction; cooperative utilities accounted for 10.8 percent; Federally owned, 9.2 percent; and publicly owned, 7.5 percent. The greatest percentage of increase, 10.9 percent, was reported by publicly owned electric utilities. For 2001, publicly owned utilities are predicted to have the greatest annual rate of increase, 4.3 percent. Investor-owned utilities are predicted to continue to account for the greatest share of potential peak load reductions in 2001 at 72.2 percent.

Interruptible load programs accounted for 44.6 percent of potential peak load reductions in 1996; energy efficiency accounted for 29.5 percent; direct load control for 19.5 percent; and other load management and other DSM programs, combined, accounted for 6.4 percent. When comparing historical potential peak load reductions to projected potential peak load reductions, other DSM programs for 1996 and 1997 accounted for the greatest percentage increase. For 2001, the greatest average annual increase, 4.1 percent, is predicted for energy efficiency programs. In 2001, the greatest share of potential peak load reduction is expected for interruptible load programs (Table 13).

The industrial sector accounted for 41.9 percent in 1996, the greatest share of potential peak load reductions, primarily as a result of interruptible load programs. The residential and commercial sectors contributed 30.4 percent and 25.8 percent, respectively, in 1996. The other sector accounted for 1.9 percent.

In 1996, the SERC region accounted for 33.7 percent of the total potential peak load reductions, primarily because the Tennessee Valley Authority, Carolina Power and Light, Duke Power, Florida Power and Light, and Florida Power Corporation are included. The SERC region is forecasted to continue to contribute the greatest share of potential peak reductions in 1997 and 2001.

Incremental Effects for Actual Peak Load Reduction

In 1996, large utilities reported incremental actual peak load reductions of 3,689 MW. All of the ownership classes reported a decrease over 1995 levels except for Federal utilities. Investor-owned electric utilities continued to account for the greatest share of incremental reductions, 84.4 percent (Table 15).

All DSM program categories reported decreases in incremental actual peak load reductions for large utilities in 1996. Interruptible load control programs accounted for the largest percentage of incremental actual peak load reductions.

For large utilities, the industrial sector accounted for the greatest percent of actual peak load reductions, 50.7 percent. For small utilities, the residential sector accounted for the greatest amount, 57.7 percent, of actual peak load reductions (Table 17).

Table 12. U.S. Electric Utility Actual and Potential Peak Load Reductions by Class of Ownership, 1992 Through 1996, 1997, and 2001

(Megawatts)

Class of Ownership	Historical Actual Reductions					Projected Actual Reductions	
	1992	1993	1994	1995	1996	1997	2001
Investor-Owned	12,330	16,362	17,932	22,035	22,080	24,661	28,025
Publicly Owned	1,794	1,898	2,123	2,569	2,736	2,564	3,135
Cooperative	2,374	2,327	2,459	2,634	2,738	2,777	3,228
Federal	707	2,481	2,487	2,323	2,338	2,358	2,504
U.S. Total [1]	**17,204**	**23,069**	**25,001**	**29,561**	**29,893**	**32,361**	**36,892**
	Historical Potential Reductions					**Projected Potential Reductions**	
	1992	1993	1994	1995	1996	1997	2001
Investor-Owned	23,774	28,059	30,823	34,163	35,068	36,261	39,691
Publicly Owned	2,305	2,376	2,713	3,252	3,608	3,905	4,629
Cooperative	3,669	4,662	4,783	5,049	5,231	5,369	6,043
Federal	2,694	4,411	4,599	4,565	4,438	4,458	4,604
U.S. Total [2]	**32,442**	**39,508**	**42,917**	**47,029**	**48,344**	**49,993**	**54,968**

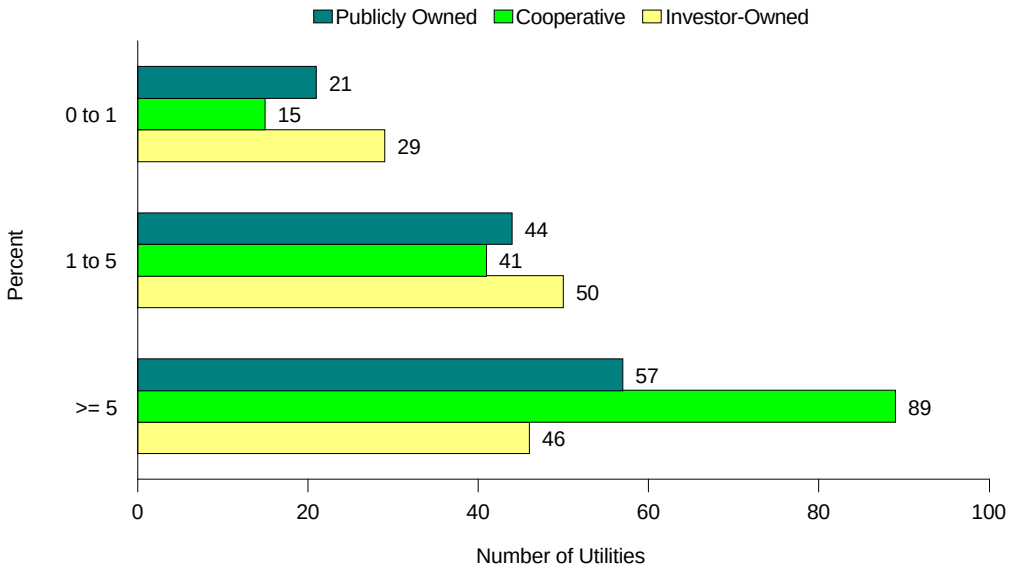
[1] Represents the sum of the actual peak load reductions attributable to direct load control, interruptible load, energy efficiency, other load management, and other demand-side management.

[2] 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.

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.

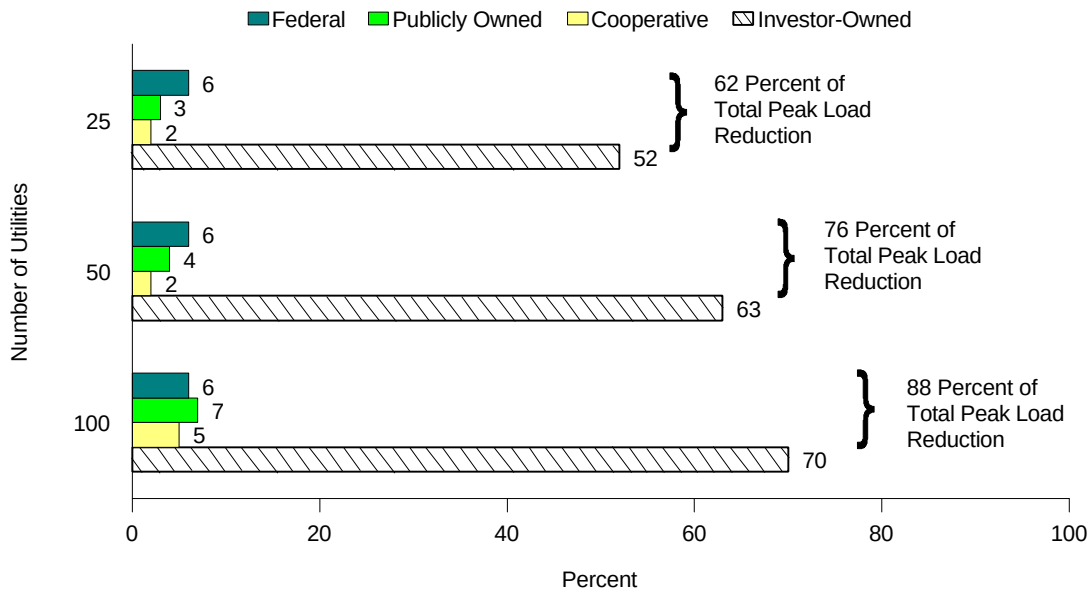
Source: Energy Information Administration, Form EIA-861, ''Annual Electric Utility Report.''

Figure 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, 1996



Note: Graph includes only large utilities that reported peak load reductions.
Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Figure 6. The Top 25, 50, and 100 U.S. Electric Utilities with the Greatest DSM Program Peak Load Reductions by Class of Ownership, 1996



Note: 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, 1995, 1996, 1997, and 2001

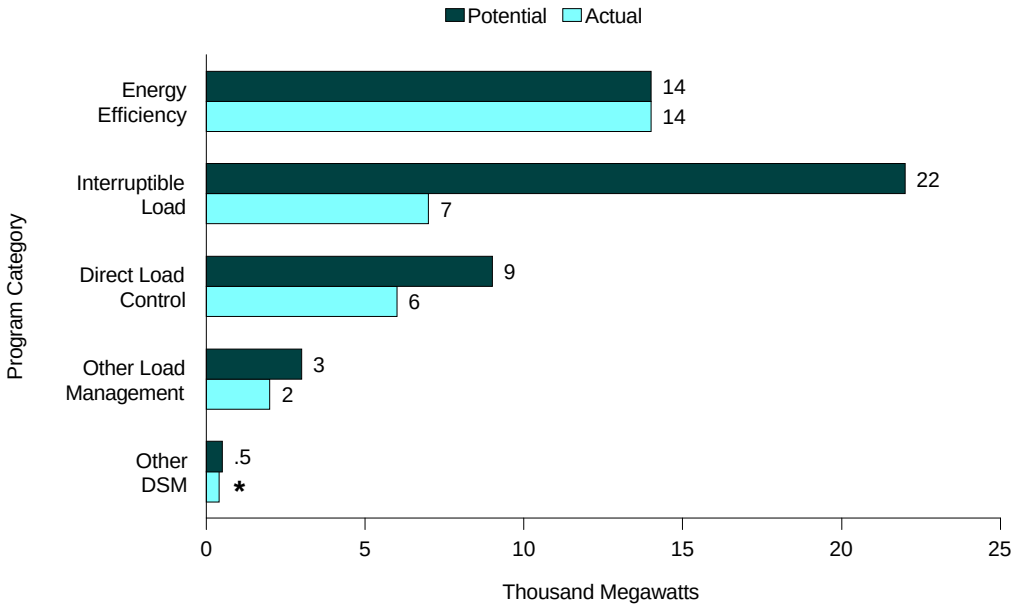
(Megawatts)

Program Category	Historical Actual Reductions	
	1995	1996
Energy Efficiency	13,212	14,243
Direct Load Control	5,352	5,575
Interruptible Load	8,401	7,390
Other Load Management	2,168	2,278
Other Demand-Side Management	426	407
U.S. Total	**29,561**	**29,893**
	Projected Actual Reductions	
	1997	**2001**
Energy Efficiency	15,108	17,771
Direct Load Control	5,897	7,140
Interruptible Load	8,846	9,161
Other Load Management	2,031	2,298
Other Demand-Side Management	479	522
U.S. Total	**32,361**	**36,892**
	Historical Potential Reductions	
	1995	**1996**
Energy Efficiency	13,212	14,243
Direct Load Control	9,036	9,443
Interruptible Load	21,820	21,558
Other Load Management	2,485	2,596
Other Demand-Side Management	476	503
U.S. Total	**47,029**	**48,344**
	Projected Potential Reductions	
	1997	**2001**
Energy Efficiency	15,108	17,771
Direct Load Control	9,813	11,444
Interruptible Load	21,794	22,105
Other Load Management	2,679	2,980
Other Demand-Side Management	599	668
U.S. Total	**49,993**	**54,968**

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. Electrc Utility Actual and Potential Peak Load Reductions by DSM Program Category, 1996



* Value is less than 500 megawatts.

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

Table 14. U.S. Electric Utility Actual and Potential Peak Load Reductions by Sector, 1995 and 1996

(Megawatts)

Sectors	1995		1996	
	Actual	Potential	Actual	Potential
Residential	10,930	14,047	11,471	14,697
Commercial	8,054	11,494	8,678	12,452
Industrial	10,033	20,716	9,083	20,275
Other	545	773	661	921
U.S. Total	**29,561**	**47,029**	**29,893**	**48,344**

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 15. U.S. Electric Utility Incremental Actual Peak Load Reductions by Class of Ownership, 1995 and 1996

(Megawatts)

Class of Ownership	Large Utilities [1]		Small Utilities [2]		Total	
	1995	1996	1995	1996	1995	1996
Investor-Owned	3,935	3,115	*	*	3,936	3,115
Publicly Owned	428	374	25	35	453	409
Cooperative	224	185	10	17	234	202
Federal	13	16	0	0	13	16
U.S. Total	**4,600**	**3,689**	**36**	**52**	**4,636**	**3,742**

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

2 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, 1995 and 1996

(Megawatts)

Program Category	Large Utilities [1]		Small Utilities [2]		Total	
	1995	1996	1995	1996	1995	1996
Energy Efficiency	1,561	1,381	7	2	1,567	1,383
Direct Load Control	552	399	20	24	572	423
Interruptible Load	2,209	1,692	4	11	2,213	1,702
Other Load Management	246	191	3	9	249	200
Other Demand-Side Management	32	27	2	6	34	33
U.S. Total	**4,600**	**3,689**	**36**	**52**	**4,636**	**3,742**

1 Refers to electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.
2 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, 1995 and 1996

(Megawatts)

Sector	Large Utilities [1]		Small Utilities [2]		Total	
	1995	1996	1995	1996	1995	1996
Residential	860	792	20	30	880	822
Commercial	1,176	935	10	9	1,186	944
Industrial	2,426	1,870	4	8	2,430	1,878
Other	139	93	2	5	140	97
U.S. Total	**4,600**	**3,689**	**36**	**52**	**4,636**	**3,742**

1 Refers to electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.
2 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, 1995, 1996, 1997, and 2001

(Megawatts)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1995		1996		1997		2001	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
ECAR								
American Mun Power-Ohio Inc	7	10	7	13	9	14	11	18
Appalachian Power Co	110	219	40	40	131	269	150	288
Buckeye Power Inc	122	122	128	128	128	128	215	215
Cincinnati Gas & Electric Co	146	146	168	168	139	139	317	317
Cleveland Electric Illum Co	20	110	—	—	—	—	—	—
Columbus Southern Power Co	30	54	16	72	44	73	51	80
Consumers Energy Co	63	63	88	88	80	80	80	80
Crawfordsville Elec Lgt&Pwr Co	*	*	*	*	*	*	*	*
Dayton Power & Light Co	57	57	166	188	277	277	303	303
Detroit Edison Co	678	758	678	758	702	782	775	925
East Kentucky Power Coop Inc	27	27	34	34	40	40	0	0
Hagerstown City of	0	0	*	*	*	*	*	*
Hamilton City of	0	1	0	1	0	2	0	4
Harrison County Rural E C C	—	—	*	*	*	*	*	*
Indiana Michigan Power Co	69	91	89	309	260	309	260	309
Indiana Municipal Power Agency	*	*	3	3	4	4	9	9
Indianapolis Power & Light Co	64	77	63	79	85	102	97	114
Kentucky Power Co	30	36	24	45	32	42	50	60
Kentucky Utilities Co	58	60	59	66	63	69	66	71
Kingsport Power Co	3	3	4	4	4	4	7	7
Lansing City of	*	6	1	6	1	6	2	10
Louisville Gas & Electric Co	55	89	53	125	125	125	142	142
Midwest Electric Inc	10	10	—	—	—	—	—	—
Monongahela Power Co	94	121	86	131	94	131	94	131
Northern Indiana Pub Serv Co	0	125	0	129	0	137	0	141
Ohio Edison Co	34	422	43	432	46	46	117	117
Ohio Power Co	97	273	169	281	212	284	221	293
Owen Electric Coop Inc	1	1	1	1	2	2	6	6
Owensboro City of	—	—	5	6	8	9	6	9
Pennsylvania Power Co	40	66	40	66	*	*	3	3
Potomac Edison Co	195	195	195	195	203	203	208	208
PSI Energy Inc	154	154	114	114	45	45	115	115
South Central Power Co	0	29	0	8	0	29	0	32
Southern Indiana Gas & Elec Co	50	50	55	68	59	72	63	77
Toledo Edison Co	16	81	—	—	—	—	—	—
Union Light Heat & Power Co	—	—	1	1	27	27	60	60
Wabash Valley Power Assn Inc	40	50	40	50	42	52	44	54
Wadsworth City of	10	10	10	10	10	10	10	10
West Penn Power Co	166	166	157	166	157	166	157	166
Wheeling Power Co	1	21	1	21	21	21	22	22
Wolverine Pwr Supply Coop Inc	11	21	10	21	11	21	13	23
ECAR Total	**2,458**	**3,723**	**2,547**	**3,827**	**3,063**	**3,723**	**3,673**	**4,419**
ERCOT								
Austin City of	244	291	323	323	350	350	454	454
Brazos Electric Power Coop Inc	4	4	7	7	9	9	9	9
Bryan City of	13	13	23	23	25	25	24	24
Central Power & Light Co	45	350	59	60	16	16	0	0
College Station City of	1	2	1	1	1	2	1	2
Denton City of	1	1	—	—	—	—	—	—
East Texas Electric Coop Inc	—	—	*	*	0	0	0	0
Garland City of	14	32	—	—	—	—	—	—
Georgetown City of	1	2	1	2	3	4	7	8
Greenville Electric Util Sys	4	6	2	6	2	6	4	8
Guadalupe Valley Elec Coop Inc	57	64	73	79	74	79	76	81
Houston Lighting & Power Co	91	958	100	1,022	112	907	0	562
Lower Colorado River Authority	103	103	115	115	115	115	115	115
Magic Valley Electric Coop Inc	1	7	9	9	11	11	3	13
Medina Electric Coop Inc	8	35	8	36	8	35	6	21
San Bernard Electric Coop Inc	6	22	6	22	2	17	3	19
San Marcos City of	3	3	3	3	3	3	3	3
Texas Utilities Electric Co	1,250	1,994	1,262	1,999	1,276	2,026	1,276	2,026
Texas-New Mexico Power Co	19	19	—	—	—	—	—	—
West Texas Utilities Co	8	63	10	10	10	10	0	0
ERCOT Total	**1,873**	**3,969**	**2,002**	**3,716**	**2,015**	**3,614**	**1,980**	**3,345**

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, 1995, 1996, 1997, and 2001

(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1995		1996		1997		2001	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
MAAC								
A & N Electric Coop	1	2	2	4	1	2	1	2
Adams Electric Coop Inc	25	27	—	—	—	—	—	—
Allegheny Electric Coop Inc	42	45	70	83	67	93	89	122
Atlantic City Electric Co	96	96	—	—	—	—	—	—
Baltimore Gas & Electric Co	65	676	202	610	224	676	267	744
Central Electric Coop Inc	4	5	—	—	—	—	—	—
Choptank Electric Coop Inc	7	15	8	16	12	27	15	32
Claverack Rural Elec Coop Inc	5	6	—	—	—	—	—	—
Delaware Electric Coop Inc	8	20	11	17	13	20	17	27
Delmarva Power & Light Co	145	276	36	296	36	296	36	296
Easton Utilities Comm	*	*	—	—	—	—	—	—
Jersey Central Power&Light Co	595	603	150	167	174	175	265	265
Metropolitan Edison Co	280	280	220	341	238	358	300	420
Northwestern Rural E C A Inc	7	7	—	—	—	—	—	—
Pennsylvania Electric Co	64	64	68	370	72	374	92	394
Pennsylvania Power & Light Co	23	313	30	320	30	320	30	320
Potomac Electric Power Co	364	636	420	698	795	795	1,159	1,159
Public Service Electric&Gas Co	280	470	514	657	795	795	1,021	1,021
PECO Energy Co	49	383	—	—	—	—	—	—
Somerset Rural Elec Coop Inc	3	3	—	—	—	—	—	—
Southern Maryland El Coop Inc	37	216	42	231	48	264	61	345
Southwest Central R E C Corp	0	3	—	—	—	—	—	—
Tri-County Rural Elec Coop Inc	2	3	—	—	—	—	—	—
United Electric Coop Inc	4	4	—	—	—	—	—	—
Valley Rural Electric Coop Inc	4	5	—	—	—	—	—	—
MAAC Total	**2,110**	**4,157**	**1,773**	**3,810**	**2,505**	**4,197**	**3,355**	**5,149**
MAIN								
Boone Electric Coop	3	3	3	3	3	3	4	4
Central Illinois Light Co	75	75	116	116	0	116	0	56
Coles-Moultrie Electric Coop	8	8	10	10	10	10	10	10
Columbia City of	9	9	12	12	4	23	15	33
Commonwealth Edison Co	183	183	234	234	413	413	773	773
Corn Belt Electric Coop Inc	13	22	17	18	19	20	19	20
Cuivre River Electric Coop Inc	9	11	7	10	14	17	17	20
Eastern Illini Electric Coop	11	16	11	16	11	16	11	16
Farmington City of	0	*	—	—	—	—	—	—
Illinois Power Co	97	190	0	157	116	116	106	106
Madison Gas & Electric Co	51	86	66	93	119	147	141	169
Manitowoc Public Utilities	3	3	3	3	3	3	3	4
Marshfield City of	1	2	1	2	1	2	3	9
Menard Electric Coop	0	*	0	*	*	*	*	*
Shelby Electric Coop Inc	10	10	11	11	10	11	12	13
Southeastern IL Elec Coop Inc	0	*	0	*	0	*	0	*
Southwestern Electric Coop Inc	21	29	21	29	0	0	0	0
Springfield City of	7	11	8	12	9	13	13	17
Tri-County Electric Coop Inc	11	11	11	11	12	12	16	17
Union Electric Co	131	182	134	184	142	191	222	243
Wayne-White Counties Elec Coop	0	13	0	13	10	13	10	14
Wisconsin Electric Power Co	355	735	663	711	353	765	345	901
Wisconsin Power & Light Co	70	216	79	224	94	248	138	283
Wisconsin Public Power Inc Sys	28	30	29	65	2	48	1	52
Wisconsin Public Service Corp	164	297	190	238	352	352	90	90
MAIN Total	**1,257**	**2,140**	**1,625**	**2,172**	**1,696**	**2,537**	**1,947**	**2,849**
MAPP(U.S.)								
Ames City of	1	1	1	1	3	3	4	4
Anoka City of	1	1	*	1	*	1	1	1
Austin City of	5	6	3	5	3	5	3	5
Barron Electric Coop	4	4	4	4	4	4	4	5
Capital Electric Coop Inc	2	6	2	5	2	5	2	6
Cass County Electric Coop Inc	56	67	64	71	61	71	75	81
Cedar Falls City of	*	*	*	*	*	*	*	*
Central Iowa Power Coop	*	*	*	*	*	*	1	1

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, 1995, 1996, 1997, and 2001

(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1995		1996		1997		2001	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
MAPP(U.S.) (Continued)								
Central Power Elec Coop Inc	15	22	15	22	16	23	17	24
Chaska City of	2	2	2	2	2	2	3	3
Clark Electric Coop	3	3	3	4	3	4	5	5
Coop Power Assn	4	151	9	174	9	190	20	254
Cornhusker Public Power Dist	13	13	—	—	—	—	—	—
Custer Public Power District	14	14	—	—	—	—	—	—
Dawson County Public Pwr Dist	*	*	*	*	0	*	0	*
Denison City of	2	3	2	3	2	3	2	4
East Grand Forks City of	1	8	1	8	1	8	0	0
East River Elec Power Coop Inc	58	104	53	111	80	147	82	160
Eau Claire Electric Coop	*	*	4	4	4	4	6	6
Elkhorn Rural Public Pwr Dist	27	30	—	—	—	—	—	—
Fairmont Public Utilities Comm	2	3	3	3	4	4	8	9
Freeborn-Mower Electric Coop	—	—	4	6	3	5	3	6
Grant-Lafayette Electric Coop	5	6	5	6	5	6	5	6
Interstate Power Co	63	63	26	80	97	97	145	145
Iowa Lakes Electric Coop	8	29	9	30	9	31	10	37
IES Utilities Inc	444	444	145	454	479	479	559	559
L & O Power Coop	2	2	2	2	2	2	2	2
Lexington City of	1	1	1	1	1	1	1	1
Lincoln Electric System	3	4	4	4	4	4	6	6
Loup River Public Power Dist	5	9	6	14	7	10	11	14
Marshall City of	2	5	3	5	3	6	4	7
Midland Power Coop	3	3	*	*	0	*	0	*
MidAmerican Energy Co	299	299	300	300	319	319	436	436
Minnesota Power & Light Co	228	321	243	340	244	346	260	376
Minnkota Power Coop Inc	325	325	300	300	325	325	350	350
Moorhead City of	12	12	13	13	14	14	15	15
Mountrail-Williams Elec Coop	3	6	4	6	4	6	4	7
Municipal Energy Agency of NE	25	25	25	25	14	19	16	23
MDU Resources Group Inc	13	13	9	13	12	13	12	13
Nebraska Public Power District	232	391	227	516	232	524	253	570
Nodak Electric Coop Inc	63	63	65	65	66	66	71	71
Norris Public Power District	7	10	—	—	—	—	—	—
North Platte City of	8	8	—	—	—	—	—	—
Northern States Power Co of MN	956	956	1,056	1,056	1,200	1,200	1,435	1,435
Northern States Power Co of WI	140	173	196	226	164	197	228	285
Northwest Iowa Power Coop	18	41	14	38	15	40	19	49
Northwestern Public Service Co	*	*	*	*	*	*	1	1
Northwestern Wisconsin Elec Co	1	1	1	2	1	2	1	2
Oakdale Electric Coop	3	3	2	2	2	2	5	5
Oliver-Mercer Elec Coop Inc	4	6	4	6	4	6	4	6
Omaha Public Power District	4	4	5	5	5	5	9	9
Otter Tail Power Co	59	100	57	103	17	106	18	111
Owatonna City of	10	21	8	21	6	17	7	20
People 's Coop Power Assn	1	1	1	1	1	1	2	2
Pierre City of	5	8	5	8	4	6	5	7
Polk-Burnett Electric Coop	8	20	10	26	10	26	11	29
R S R Electric Coop Inc	—	—	3	10	3	10	3	11
Rice Lake Utilities	*	*	3	3	3	3	5	5
Rochester Public Utilities	1	12	1	11	1	13	2	16
Roseau Electric Coop Inc	21	21	22	22	22	22	26	26
Shakopee Public Utilities Comm	1	1	1	1	*	*	3	5
Spencer City of	*	*	*	*	*	*	1	1
Superior Water Light&Power Co	1	1	1	1	*	*	*	*
Thief River Falls City of	—	—	7	8	7	7	7	8
Trempealeau Electric Coop	—	—	4	4	6	6	9	9
Tri-County Electric Coop	7	7	7	8	7	8	9	10
United Power Assn	148	224	117	187	132	209	146	234
Verendrye Electric Coop Inc	5	5	6	6	6	6	7	7
Vernon Electric Coop	4	5	5	5	7	8	11	12
York County Rural Pub Pwr Dist	15	15	15	15	15	15	15	15
MAPP(U.S.) Total	**3,373**	**4,101**	**3,106**	**4,374**	**3,676**	**4,668**	**4,385**	**5,531**

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, 1995, 1996, 1997, and 2001

(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1995		1996		1997		2001	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
NPCC(U.S.)								
Arcade Village of	0	1	0	1	0	1	0	1
Bangor Hydro-Electric Co	10	10	11	11	11	11	10	10
Blackstone Valley Electric Co	1	1	7	7	14	14	17	17
Boston Edison Co	107	107	2	2	8	8	8	8
Braintree Town of	3	8	3	9	6	8	6	8
Burlington City of	10	10	10	10	11	11	11	11
Cambridge Electric Light Co	27	27	19	19	22	23	22	23
Central Hudson Gas & Elec Corp	26	26	33	33	31	31	26	26
Central Maine Power Co	100	100	102	102	131	131	131	131
Central Vermont Pub Serv Corp	18	18	21	21	2	2	0	0
Chicopee City of	2	2	2	2	2	2	2	2
Citizens Utilities Co	10	16	7	13	7	14	15	22
Commonwealth Electric Co	98	98	30	33	33	36	33	36
Concord Electric Co	1	2	2	2	2	2	0	0
Connecticut Light & Power Co	295	295	383	383	282	393	394	505
Connecticut Valley Elec Co Inc	1	1	0	0	0	0	0	0
Consolidated Edison Co-NY Inc	608	608	634	638	657	657	707	707
Eastern Edison Co	6	6	20	20	35	35	37	37
Exeter & Hampton Electric Co	2	2	2	2	2	2	0	0
Fitchburg Gas & Elec Light Co	3	3	3	3	1	1	0	0
Granite State Electric Co	8	8	9	9	10	10	12	12
Green Mountain Power Corp	16	22	27	33	28	35	33	40
Hingham City of	3	7	3	7	4	7	4	8
Holyoke City of	*	*	2	2	3	4	3	4
Jamestown City of	1	1	2	2	2	2	2	2
Littleton Town of	0	1	0	1	0	*	0	*
Long Island Lighting Co	175	175	179	179	186	186	284	284
Maine Public Service Co	1	2	1	2	1	2	1	2
Massachusetts Electric Co	170	170	194	194	232	232	287	287
Massena Town of	1	4	1	4	1	4	3	6
Montaup Electric Co	22	22	—	—	—	—	—	—
Narragansett Electric Co	60	60	63	63	75	75	84	89
New England Power Co	71	107	16	108	70	101	0	0
New Hampshire Elec Coop Inc	*	10	1	11	1	2	*	1
New York State Elec & Gas Corp	135	135	147	147	143	143	222	222
Newport Electric Corp	—	—	3	3	4	4	5	5
Niagara Mohawk Power Corp	191	191	195	195	197	197	206	206
North Attleborough Town of	2	2	—	—	—	—	—	—
Norwood City of	2	2	9	9	*	*	0	0
Omya Inc	*	*	*	*	*	*	*	*
Orange & Rockland Utils Inc	131	131	134	134	140	140	158	158
Power Authority of State of NY	52	52	65	65	79	79	108	108
Public Service Co of NH	7	7	7	7	*	*	0	0
Reading Town of	6	8	6	8	*	9	*	9
Rochester Gas & Electric Corp	56	56	37	61	71	71	71	71
Shrewsbury Town of	3	3	3	3	3	3	3	3
Taunton City of	*	*	3	3	*	*	1	2
United Illuminating Co	83	83	90	90	17	20	11	13
Vermont Electric Coop Inc	—	—	1	3	1	3	1	1
Wellesley Town of	1	1	*	1	0	1	0	1
Western Massachusetts Elec Co	70	70	66	66	3	3	36	36
NPCC(U.S.) Total	**2,594**	**2,667**	**2,555**	**2,722**	**2,528**	**2,713**	**2,954**	**3,113**
SERC								
Aiken Electric Coop Inc	5	5	5	5	5	5	6	6
Alabama Electric Coop Inc	10	107	38	135	13	110	0	0
Alabama Municipal Elec Auth	3	5	3	5	7	8	7	8
Alabama Power Co	97	823	98	999	101	1,168	116	1,502
Albemarle City of	*	*	*	*	*	*	*	*
Altamaha Electric Member Corp	3	8	*	8	*	9	*	10
Amicalola Electric Member Corp	2	4	2	4	2	4	2	5
Berkeley Electric Coop Inc	30	60	33	67	30	59	39	83
Black River Electric Coop Inc	5	5	6	6	6	6	6	6
Brunswick Electric Member Corp	23	29	23	29	23	29	23	29

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, 1995, 1996, 1997, and 2001

(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1995		1996		1997		2001	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
SERC (Continued)								
BARC Electric Coop Inc	2	2	2	2	2	2	2	2
Camden City of	—	—	4	5	3	4	4	4
Carolina Power & Light Co	1,143	1,143	1,174	1,174	663	1,160	706	1,211
Carroll Electric Member Corp	17	24	*	*	0	0	0	0
Central Georgia El Member Corp	19	20	21	22	17	18	20	21
Central Virginia Electric Coop	60	72	85	96	101	112	154	170
Choctawhatche Elec Coop Inc	1	1	1	1	2	2	2	2
Clay Electric Coop Inc	62	127	59	130	66	117	78	137
Coast Electric Power Assn	20	20	20	20	20	20	30	30
Coastal Electric Member Corp	4	4	—	—	—	—	—	—
Cobb Electric Membership Corp	55	55	19	19	1	1	1	1
Colquitt Electric Members Corp	21	21	9	24	10	26	11	32
Community Electric Coop	4	4	4	4	4	4	4	4
Coweta-Fayette El Member Corp	35	40	20	40	21	41	20	40
Crescent Electric Member Corp	13	17	—	—	—	—	—	—
Crisp County Power Comm	2	2	0	3	0	3	0	4
Dothan City of	4	5	5	5	0	9	0	14
Douglas City of	3	3	3	3	3	4	4	4
Duke Power Co	83	1,083	96	1,206	101	1,216	136	1,247
Easley Combined Utility System	11	11	11	11	12	12	12	12
East Point City of	4	9	7	12	6	6	11	12
Elizabeth City City of	0	2	0	4	0	4	0	5
Excelsior Electric Member Corp	0	3	0	4	0	4	0	4
Fairfield Electric Coop Inc	3	3	4	4	4	4	4	4
Fayetteville Public Works Comm	1	1	0	0	0	0	0	0
Fitzgerald Wtr Lgt & Bond Comm	1	1	1	1	1	1	1	1
Flint Electric Membership Corp	40	40	5	5	5	5	8	8
Florida Keys El Coop Assn Inc	1	3	3	4	3	4	4	6
Florida Power & Light Co	1,771	1,771	2,005	2,005	2,153	2,153	2,733	2,733
Florida Power Corp	1,386	1,614	1,839	1,935	1,989	1,989	2,213	2,213
Fort Pierce Utilities Auth	*	*	*	*	*	*	*	*
Gaffney City of	1	1	1	1	1	1	1	1
Gainesville Regional Utilities	16	16	16	16	16	16	18	18
Georgia Power Co	848	848	106	579	906	906	936	936
Grady County Elec Member Corp	5	7	1	2	5	7	5	7
Greenville Utilities Comm	27	31	42	51	45	54	49	59
Greer Comm of Public Works	1	1	4	4	4	4	4	4
GreyStone Power Corp	25	49	25	50	26	51	28	56
Griffin City of	—	—	2	2	2	2	2	2
Gulf Power Co	163	163	174	174	179	179	256	256
Harrisonburg City of	5	5	5	5	14	14	14	14
Hart Electric Member Corp	7	8	7	8	7	8	9	10
Haywood Electric Member Corp	*	1	4	8	0	0	0	0
High Point Town of	8	75	10	76	10	76	10	88
Jackson Electric Member Corp	49	49	49	49	48	48	53	53
Jacksonville Electric Auth	15	15	17	17	56	101	137	202
Jefferson Electric Member Corp	12	14	12	14	13	14	15	16
Jones-Onslow Elec Member Corp	—	—	12	33	14	36	19	50
Kinston City of	17	17	20	20	18	18	19	19
Kissimmee Utility Authority	3	15	3	20	4	24	6	41
Lakeland City of	40	44	45	49	48	53	64	70
Lamar Electric Membership Corp	1	1	1	1	1	1	1	1
Laurens Electric Coop Inc	*	*	*	*	*	*	*	*
Laurinburg City of	3	5	3	3	3	3	3	4
Lawrenceville City of	4	4	4	4	4	4	4	4
Lee County Electric Coop Inc	64	69	68	73	76	80	83	88
Leesburg City of	4	4	11	12	11	12	12	13
Lumberton City of	2	5	2	5	2	5	0	0
Lynches River Elec Coop Inc	4	4	4	4	3	3	3	3
Manassas City of	2	2	21	21	20	20	22	22
Marietta City of	1	7	—	—	—	—	—	—
Mecklenburg Electric Coop Inc	8	13	14	16	15	19	18	23
Mid-Carolina Electric Coop Inc	9	9	10	10	11	11	12	12
Mitchell Electric Member Corp	0	9	0	10	0	11	0	14

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, 1995, 1996, 1997, and 2001

(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1995		1996		1997		2001	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
SERC (Continued)								
Municipal Electric Authority	0	99	0	121	0	142	0	196
New Bern City of	8	9	10	32	13	34	15	39
New River Light & Power Co	1	3	*	1	9	37	9	37
New Smyrna Beach Utils Comm	0	8	8	8	0	8	0	10
Newberry City of	1	1	1	1	1	1	1	1
Newnan Wtr Sewer & Light Comm	6	6	0	6	0	6	0	6
North Carolina Eastern M P A	170	170	180	180	0	234	0	242
North Carolina El Member Corp	93	142	256	312	256	312	266	325
North Carolina Mun Power Agny	68	68	61	61	0	69	0	72
Northern Neck Elec Coop Inc	3	3	3	3	3	3	3	3
Northern Virginia Elec Coop	36	39	32	33	27	30	30	33
Ocala City of	7	10	—	—	—	—	—	—
Ocmulgee Electric Member Corp	—	—	1	4	1	4	1	4
Orangeburg City of	6	9	6	9	6	9	8	10
Orlando Utilities Comm	33	33	37	37	43	43	65	65
Palmetto Electric Coop Inc	15	17	15	20	17	22	21	29
Pee Dee Electric Coop Inc	3	3	4	4	4	4	4	4
Planters Electric Member Corp	0	7	0	7	0	7	0	7
Prince George Electric Coop	14	18	14	18	16	18	16	18
Rappahannock Electric Coop	45	56	33	35	47	57	86	96
Rayle Electric Membership Corp	2	3	2	3	2	3	2	3
Reedy Creek Improvement Dist	*	*	1	1	0	1	9	9
Rock Hill City of	6	7	7	8	3	3	5	5
Rocky Mount City of	25	38	25	38	26	27	28	28
Satilla Rural Elec Member Corp	9	15	9	15	4	6	5	7
Savannah Electric & Power Co	2	2	2	2	1	1	2	2
Sawnee Electric Members Corp	20	81	20	80	22	82	25	92
Shenandoah Valley Elec Coop	11	11	13	13	13	14	14	14
Singing River Elec Power Assn	6	7	7	8	6	8	7	8
Smithfield Town of	6	8	2	6	2	7	2	7
Snapping Shoals El Member Corp	8	10	—	—	—	—	—	—
South Carolina Electric&Gas Co	108	240	106	197	120	211	127	127
South Carolina Pub Serv Auth	44	44	51	51	59	59	123	123
South Mississippi El Pwr Assn	48	48	48	48	49	49	54	54
Southside Electric Coop Inc	14	17	14	17	14	17	18	22
Sumter Electric Coop Inc	47	53	52	57	7	56	9	65
Suwannee Valley Elec Coop Inc	0	16	0	17	0	18	0	19
Tallahassee City of	24	24	26	26	28	28	37	37
Tampa Electric Co	231	700	284	605	261	736	340	865
Tennessee Valley Authority	2,323	4,423	2,338	4,438	2,358	4,458	2,504	4,604
Thomasville City of	5	7	5	6	5	6	5	6
Tideland Electric Member Corp	—	—	12	12	9	9	9	9
Tri-County Elec Member Corp	6	7	0	0	0	0	0	0
Tri-County Elec Member Corp	3	3	3	4	3	4	4	4
Troup Electric Members Corp	0	8	8	8	8	8	8	8
Union City of	1	1	1	1	1	1	1	1
Virginia Electric & Power Co	234	320	105	268	265	265	269	269
Walton Electric Member Corp	15	15	—	—	—	—	—	—
Washington City of	10	13	11	13	13	13	16	16
Wilson City of	32	43	46	57	38	48	42	52
Withlacoochee River Elec Coop	33	33	41	41	0	*	0	*
York Electric Coop Inc	35	47	11	42	29	38	35	44
SERC Total	**10,103**	**15,582**	**10,203**	**16,305**	**10,723**	**17,316**	**12,384**	**19,354**
SPP								
Alfalfa Electric Coop Inc	3	4	3	4	3	4	4	5
Altus City of	1	2	*	1	1	1	2	2
Arkansas Electric Coop Corp	0	529	0	529	0	529	0	529
Bailey County Elec Coop Assn	7	35	—	—	—	—	—	—
C & L Electric Coop Corp	1	2	1	2	1	3	1	3
Caddo Electric Coop Inc	8	26	11	13	11	13	11	13
Carroll Electric Coop Corp	10	75	9	75	10	75	10	80
Central Rural Electric Coop	5	7	5	7	6	7	7	8
Cookson Hills Elec Coop Inc	7	25	8	28	9	30	10	37

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, 1995, 1996, 1997, and 2001

(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1995		1996		1997		2001	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
SPP (Continued)								
Cotton Electric Coop Inc	—	—	0	0	0	6	0	6
Craighead Electric Coop Corp	8	26	8	21	8	22	9	24
Delta Electric Power Assn	6	7	2	4	2	4	2	4
Dixie Electric Membership Corp	14	16	14	16	14	16	16	18
Duncan City of	*	*	*	*	*	*	*	*
Empire District Electric Co	38	38	21	32	20	20	32	32
Farmers ' Electric Coop Inc	8	8	5	6	5	6	5	6
First Electric Coop Corp	18	29	22	41	22	41	23	43
Grundy Electric Coop Inc	—	—	2	2	3	3	6	8
Independence City of	3	5	4	6	6	6	8	9
Indian Electric Coop Inc	3	6	3	6	3	7	6	10
Kansas City City of	0	33	33	33	0	33	0	33
Kansas City Power & Light Co	34	34	34	31	34	34	0	0
Kansas Electric Power Coop Inc	34	34	33	43	42	54	48	60
Kansas Gas & Electric Co	10	180	12	167	12	197	12	193
Lamb County Electric Coop Inc	—	—	0	6	0	6	0	6
Mississippi Cnty Elec Coop Inc	2	389	2	401	3	408	3	408
North Arkansas Elec Coop Inc	5	5	5	5	5	5	5	5
Northeast Louisiana Power Coop	3	5	3	5	4	5	4	6
Oklahoma Gas & Electric Co	229	429	231	431	163	388	91	316
Oklahoma Municipal Power Auth	1	1	1	1	*	*	*	*
Osceola City of	3	3	4	4	4	4	5	5
Ozark Electric Coop Inc	2	2	2	2	0	2	0	2
Petit Jean Electric Coop Corp	3	3	3	3	2	3	3	3
Public Service Co of Oklahoma	84	172	57	71	55	70	3	3
Red River Valley Rrl Elec Assn	6	8	2	8	3	8	4	10
South Central Ark El Coop Inc	5	5	5	5	5	7	8	9
South Plains Electric Coop Inc	6	25	5	21	12	21	19	34
Southwestern Electric Power Co	10	55	13	13	45	110	0	0
Southwestern Public Service Co	90	132	168	302	164	320	179	335
Stillwater Utilities Authority	1	1	1	1	1	1	1	1
UtiliCorp United Inc	10	10	0	0	0	5	0	10
Verdigris Valley Elec Coop Inc	15	15	15	16	16	16	15	16
Western Farmers Elec Coop Inc	0	53	0	47	0	47	0	47
Western Resources Inc	15	166	132	170	19	170	19	170
White River Valley El Coop Inc	15	22	16	22	0	0	0	0
Woodruff Electric Coop Corp	21	56	30	59	28	57	29	61
SPP Total	**744**	**2,680**	**924**	**2,659**	**738**	**2,764**	**599**	**2,568**
WSCC(U.S.)								
Alameda City of	1	2	2	2	2	2	3	3
Anaheim City of	25	30	21	25	20	26	44	50
Arizona Electric Pwr Coop Inc	*	*	1	1	6	8	9	11
Arizona Public Service Co	506	685	506	685	778	797	699	727
Black Hills Corp	15	20	—	—	—	—	—	—
Bonneville Power Admin	0	143	0	0	0	0	0	0
Boulder City City of	—	—	5	5	5	5	6	6
Bountiful City City of	7	7	7	7	7	7	1	8
Colorado Springs City of	1	1	*	*	*	*	*	*
Dixie Escalante R E A Inc	—	—	4	9	4	9	5	10
El Paso Electric Co	61	61	66	66	2	77	0	0
Eugene City of	40	40	44	44	45	45	60	60
Fort Collins City of	1	2	2	3	2	2	2	2
Holy Cross Electric Assn Inc	—	—	10	10	0	0	0	0
Idaho Power Co	28	28	0	0	0	0	0	0
Imperial Irrigation District	5	5	6	6	*	*	*	*
La Plata Electric Assn Inc	5	8	5	9	5	9	0	44
Longmont City of	6	9	5	8	6	9	7	11
Los Angeles City of	83	95	86	98	82	94	79	91
Loveland City of	1	8	2	8	7	8	7	8
Modesto Irrigation District	21	21	39	64	39	65	0	0
Mohave Electric Coop Inc	*	*	*	*	1	1	1	1
Montana Power Co	49	117	57	57	60	60	91	91
Mountain Parks Electric Inc	10	10	11	11	12	12	14	14

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, 1995, 1996, 1997, and 2001

(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1995		1996		1997		2001	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
WSCC(U.S.) (Continued)								
Mountain View Elec Assn Inc	—	—	29	46	37	62	53	94
Navopache Electric Coop Inc	8	13	9	15	9	16	11	20
Nevada Power Co	36	43	33	33	33	33	15	15
Overton Power District No 5	*	*	—	—	—	—	—	—
Pacific Gas & Electric Co	1,126	1,183	1,119	1,176	1,176	1,248	1,176	1,248
PacifiCorp	0	375	0	571	0	0	0	0
Palo Alto City of	6	6	6	6	6	6	8	8
Pasadena City of	4	6	7	7	7	7	16	16
Poudre Valley R E A Inc	—	—	1	1	2	2	2	3
Public Service Co of Colorado	216	273	298	466	67	298	68	306
Puget Sound Power & Light Co	0	38	0	72	0	72	0	72
PUD No 1 of Benton County	1	1	1	1	2	2	2	2
PUD No 1 of Clark County	0	0	9	9	0	0	0	0
PUD No 1 of Pend Oreille Cnty	1	1	1	1	1	1	1	1
PUD No 2 of Grant County	51	85	62	62	92	92	94	94
Redding City of	29	31	30	30	31	31	42	42
Riverside City of	12	12	—	—	—	—	—	—
Roseville City of	4	4	5	5	5	5	7	7
Sacramento Municipal Util Dist	402	402	429	429	446	446	518	518
Salt River Proj Ag I & P Dist	234	235	136	223	138	236	138	236
San Diego Gas & Electric Co	181	181	243	243	282	282	322	322
San Miguel Power Assn Inc	—	—	1	1	1	1	3	3
Santa Clara City of	6	8	7	11	7	11	10	15
Seattle City of	27	27	60	60	66	66	90	90
Sierra Pacific Power Co	47	47	—	—	—	—	—	—
Southern California Edison Co	1,603	3,536	1,614	3,960	1,622	3,968	1,622	3,968
Springfield City of	3	3	4	4	1	1	3	3
Sulphur Springs Valley E C Inc	2	2	2	2	2	2	2	2
Trico Electric Coop Inc	1	2	1	4	1	4	0	0
Tucson Electric Power Co	33	33	38	38	139	139	165	165
Turlock Irrigation District	9	9	2	4	1	3	1	3
United Power Inc	12	15	8	11	13	17	22	29
Utah Municipal Power Agency	1	1	1	1	1	1	2	2
Vera Irrigation District # 15	7	8	—	—	—	—	—	—
Vernon City of	8	15	8	15	8	16	8	17
Washington Water Power Co	87	87	90	90	104	104	139	139
Yellowstone Valley Elec Co-op	7	7	1	1	9	9	13	13
WSCC(U.S.) Total	**5,028**	**7,982**	**5,134**	**8,718**	**5,387**	**8,413**	**5,579**	**8,588**
Contiguous U.S.	**29,539**	**47,002**	**29,869**	**48,301**	**32,330**	**49,945**	**36,858**	**54,915**
ASCC								
Alaska Electric Light&Power Co	7	7	5	14	4	12	5	13
Golden Valley Elec Assn Inc	2	2	2	2	2	2	1	1
ASCC Total	**9**	**9**	**7**	**15**	**6**	**14**	**6**	**14**
Hawaii								
Hawaii Electric Light Co Inc	1	1	3	8	5	10	9	14
Hawaiian Electric Co Inc	3	3	5	5	8	8	0	0
Maui Electric Co Ltd	9	14	9	15	12	17	19	24
Hawaii Total	**13**	**19**	**17**	**28**	**24**	**35**	**28**	**38**
U.S. Total	**29,561**	**47,029**	**29,893**	**48,344**	**32,361**	**49,993**	**36,892**	**54,968**

* 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.''

Table 19. U.S. Electric Utility Actual Peak Load Reductions by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1996

(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
ECAR						
American Mun Power-Ohio Inc	0	0	7	1	0	7
Appalachian Power Co	39	0	0	1	0	40
Buckeye Power Inc	0	128	0	0	0	128
Cincinnati Gas & Electric Co	37	25	106	0	0	168
Columbus Southern Power Co	9	0	3	4	0	16
Consumers Energy Co	76	1	0	3	7	88
Crawfordsville Elec Lgt&Pwr Co	0	0	*	0	0	*
Dayton Power & Light Co	57	0	109	0	0	166
Detroit Edison Co	20	159	500	0	0	678
East Kentucky Power Coop Inc	30	0	0	4	0	34
Hagerstown City of	*	0	0	0	0	*
Harrison County Rural E C C	*	0	0	*	0	*
Indiana Michigan Power Co	5	0	80	4	0	89
Indiana Municipal Power Agency	0	3	0	0	0	3
Indianapolis Power & Light Co	17	0	0	1	44	63
Kentucky Power Co	11	0	13	0	0	24
Kentucky Utilities Co	10	0	34	8	7	59
Kingsport Power Co	4	0	0	0	0	4
Lansing City of	*	0	0	0	*	*
Louisville Gas & Electric Co	1	0	52	0	0	53
Monongahela Power Co	86	0	0	0	0	86
Ohio Edison Co	42	0	0	1	0	43
Ohio Power Co	6	*	151	12	0	169
Owen Electric Coop Inc	1	0	0	0	0	1
Owensboro City of	0	0	0	0	5	5
Pennsylvania Power Co	0	0	40	0	0	40
Potomac Edison Co	195	0	0	0	0	195
PSI Energy Inc	89	0	24	0	0	114
Southern Indiana Gas & Elec Co	22	33	0	0	0	55
Union Light Heat & Power Co	1	1	0	0	0	1
Wabash Valley Power Assn Inc	0	40	0	0	0	40
Wadsworth City of	0	0	10	0	0	10
West Penn Power Co	93	0	0	65	0	157
Wheeling Power Co	*	0	0	1	0	1
Wolverine Pwr Supply Coop Inc	0	10	0	0	0	10
ECAR Total	**852**	**398**	**1,129**	**103**	**64**	**2,547**
ERCOT						
Austin City of	320	0	0	0	3	323
Brazos Electric Power Coop Inc	7	0	0	0	0	7
Bryan City of	13	10	0	0	0	23
Central Power & Light Co	59	0	0	0	0	59
College Station City of	*	0	0	1	0	1
East Texas Electric Coop Inc	0	0	0	*	0	*
Georgetown City of	*	1	0	*	0	1
Greenville Electric Util Sys	0	0	1	0	1	2
Guadalupe Valley Elec Coop Inc	0	7	60	6	0	73
Houston Lighting & Power Co	100	0	0	0	0	100
Lower Colorado River Authority	88	0	26	0	0	115
Magic Valley Electric Coop Inc	2	7	0	0	0	9
Medina Electric Coop Inc	0	0	0	8	0	8
San Bernard Electric Coop Inc	*	2	4	0	0	6
San Marcos City of	3	0	0	0	0	3
Texas Utilities Electric Co	968	0	0	294	0	1,262
West Texas Utilities Co	10	0	0	0	0	10
ERCOT Total	**1,571**	**27**	**91**	**309**	**4**	**2,002**
MAAC						
A & N Electric Coop	0	1	0	0	1	2
Allegheny Electric Coop Inc	*	40	11	5	14	70
Baltimore Gas & Electric Co	128	0	0	74	0	202
Choptank Electric Coop Inc	0	3	0	5	0	8
Delaware Electric Coop Inc	0	11	0	0	0	11
Delmarva Power & Light Co	36	0	0	0	0	36
Jersey Central Power&Light Co	56	34	60	0	0	150
Metropolitan Edison Co	35	0	0	185	0	220
Pennsylvania Electric Co	65	0	0	3	0	68

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, 1996

(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
MAAC (Continued)						
Pennsylvania Power & Light Co	30	0	0	0	0	30
Potomac Electric Power Co	266	0	0	154	0	420
Public Service Electric&Gas Co	311	107	96	0	0	514
Southern Maryland El Coop Inc	8	34	*	0	0	42
MAAC Total	**936**	**230**	**167**	**426**	**15**	**1,773**
MAIN						
Boone Electric Coop	0	3	0	0	0	3
Central Illinois Light Co	0	0	116	0	0	116
Coles-Moultrie Electric Coop	0	3	7	0	0	10
Columbia City of	3	5	4	0	0	12
Commonwealth Edison Co	18	15	150	51	0	234
Corn Belt Electric Coop Inc	0	0	5	0	12	17
Cuivre River Electric Coop Inc	1	3	3	0	0	7
Eastern Illini Electric Coop	2	5	4	0	0	11
Madison Gas & Electric Co	47	0	19	0	0	66
Manitowoc Public Utilities	3	0	0	0	0	3
Marshfield City of	1	0	0	0	0	1
Shelby Electric Coop Inc	0	*	10	0	0	11
Southwestern Electric Coop Inc	0	5	11	5	0	21
Springfield City of	8	0	0	0	0	8
Tri-County Electric Coop Inc	0	*	11	0	0	11
Union Electric Co	7	3	125	0	*	134
Wisconsin Electric Power Co	327	0	326	10	0	663
Wisconsin Power & Light Co	79	0	0	0	0	79
Wisconsin Public Power Inc Sys	29	0	0	0	0	29
Wisconsin Public Service Corp	172	0	0	18	0	190
MAIN Total	**697**	**42**	**790**	**84**	**12**	**1,625**
MAPP(U.S.)						
Ames City of	0	1	0	0	0	1
Anoka City of	*	*	0	0	0	*
Austin City of	1	1	1	*	0	3
Barron Electric Coop	*	4	0	0	0	4
Capital Electric Coop Inc	0	2	0	0	0	2
Cass County Electric Coop Inc	*	59	5	0	0	64
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
Chaska City of	0	1	*	1	0	2
Clark Electric Coop	*	3	0	0	0	3
Coop Power Assn	9	0	0	0	0	9
Dawson County Public Pwr Dist	0	0	*	0	0	*
Denison City of	0	2	0	0	0	2
East Grand Forks City of	0	1	0	0	0	1
East River Elec Power Coop Inc	0	53	0	0	0	53
Eau Claire Electric Coop	*	4	0	0	0	4
Fairmont Public Utilities Comm	0	2	*	0	1	3
Freeborn-Mower Electric Coop	*	3	1	0	0	4
Grant-Lafayette Electric Coop	*	5	0	0	0	5
Interstate Power Co	26	0	0	0	0	26
Iowa Lakes Electric Coop	6	0	1	2	0	9
IES Utilities Inc	32	17	0	96	0	145
L & O Power Coop	0	2	0	0	0	2
Lexington City of	0	1	0	0	0	1
Lincoln Electric System	3	0	0	1	0	4
Loup River Public Power Dist	0	0	6	0	0	6
Marshall City of	*	1	1	0	0	3
Midland Power Coop	*	0	0	0	0	*
MidAmerican Energy Co	94	38	165	0	2	300
Minnesota Power & Light Co	28	15	200	0	0	243
Minnkota Power Coop Inc	0	300	0	0	0	300
Moorhead City of	1	11	2	0	*	13
Mountrail-Williams Elec Coop	2	1	0	0	0	4
Municipal Energy Agency of NE	5	18	1	2	0	25

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, 1996

(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
MAPP(U.S.) (Continued)						
MDU Resources Group Inc	0	9	0	0	0	9
Nebraska Public Power District	0	202	9	17	0	227
Nodak Electric Coop Inc	0	65	0	0	0	65
Northern States Power Co of MN	461	169	384	42	0	1,056
Northern States Power Co of WI	83	32	66	1	13	196
Northwest Iowa Power Coop	8	6	0	0	0	14
Northwestern Public Service Co	0	0	*	0	0	*
Northwestern Wisconsin Elec Co	1	0	0	*	0	1
Oakdale Electric Coop	*	2	0	0	0	2
Oliver-Mercer Elec Coop Inc	0	4	0	0	0	4
Omaha Public Power District	5	0	0	0	0	5
Otter Tail Power Co	12	41	4	0	0	57
Owatonna City of	0	2	6	0	0	8
People 's Coop Power Assn	*	1	0	0	0	1
Pierre City of	1	4	*	0	0	5
Polk-Burnett Electric Coop	0	10	0	0	0	10
R S R Electric Coop Inc	0	3	0	0	0	3
Rice Lake Utilities	3	0	0	0	0	3
Rochester Public Utilities	1	0	0	0	0	1
Roseau Electric Coop Inc	0	22	0	0	0	22
Shakopee Public Utilities Comm	*	0	0	1	0	1
Spencer City of	*	0	0	0	0	*
Superior Water Light&Power Co	1	0	0	0	0	1
Thief River Falls City of	1	5	1	0	0	7
Trempealeau Electric Coop	*	4	*	0	0	4
Tri-County Electric Coop	*	7	*	0	0	7
United Power Assn	9	35	0	73	0	117
Verendrye Electric Coop Inc	2	3	0	0	0	6
Vernon Electric Coop	*	5	0	0	0	5
York County Rural Pub Pwr Dist	0	15	0	0	0	15
MAPP(U.S.) Total	**797**	**1,205**	**853**	**235**	**15**	**3,106**
NPCC(U.S.)						
Bangor Hydro-Electric Co	10	1	0	0	0	11
Blackstone Valley Electric Co	7	0	0	*	0	7
Boston Edison Co	2	0	0	0	0	2
Braintree Town of	*	0	3	0	0	3
Burlington City of	10	0	0	0	0	10
Cambridge Electric Light Co	19	0	0	0	0	19
Central Hudson Gas & Elec Corp	32	0	0	1	0	33
Central Maine Power Co	80	22	0	0	0	102
Central Vermont Pub Serv Corp	21	0	0	0	0	21
Chicopee City of	2	0	0	0	0	2
Citizens Utilities Co	7	0	0	0	0	7
Commonwealth Electric Co	30	0	0	0	0	30
Concord Electric Co	2	0	0	0	0	2
Connecticut Light & Power Co	272	11	100	0	0	383
Consolidated Edison Co-NY Inc	614	0	20	0	0	634
Eastern Edison Co	14	0	0	6	0	20
Exeter & Hampton Electric Co	2	0	0	0	0	2
Fitchburg Gas & Elec Light Co	3	0	0	0	0	3
Granite State Electric Co	9	0	0	0	0	9
Green Mountain Power Corp	15	6	0	5	0	27
Hingham City of	*	2	*	0	*	3
Holyoke City of	2	0	0	0	0	2
Jamestown City of	1	0	0	*	1	2
Long Island Lighting Co	178	0	0	0	0	178
Maine Public Service Co	1	0	0	0	*	1
Massachusetts Electric Co	194	0	0	0	0	194
Massena Town of	*	1	0	0	0	1
Narragansett Electric Co	63	0	0	0	0	63
New England Power Co	0	16	0	0	0	16
New Hampshire Elec Coop Inc	1	0	0	0	0	1
New York State Elec & Gas Corp	147	0	0	0	0	147
Newport Electric Corp	3	0	0	0	0	3
Niagara Mohawk Power Corp	195	0	0	0	0	195

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, 1996

(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
NPCC(U.S.) (Continued)						
Norwood City of	2	*	0	0	7	9
Omya Inc	*	0	0	0	0	*
Orange & Rockland Utils Inc	74	0	61	0	0	134
Power Authority of State of NY	65	0	0	0	0	65
Public Service Co of NH	3	0	4	0	0	7
Reading Town of	*	0	6	0	0	6
Rochester Gas & Electric Corp	37	0	0	0	0	37
Shrewsbury Town of	1	2	*	1	0	3
Taunton City of	3	0	0	0	*	3
United Illuminating Co	56	8	21	4	*	90
Vermont Electric Coop Inc	*	1	0	0	0	1
Wellesley Town of	0	0	0	*	0	*
Western Massachusetts Elec Co	43	8	15	0	0	66
NPCC(U.S.) Total	**2,219**	**79**	**230**	**18**	**9**	**2,554**
SERC						
Aiken Electric Coop Inc	1	2	0	0	2	5
Alabama Electric Coop Inc	38	0	*	0	1	38
Alabama Municipal Elec Auth	0	3	0	0	0	3
Alabama Power Co	20	0	0	78	0	98
Albemarle City of	0	*	*	0	0	*
Altamaha Electric Member Corp	*	*	0	0	0	*
Amicalola Electric Member Corp	1	1	0	0	0	2
Berkeley Electric Coop Inc	7	24	0	0	1	33
Black River Electric Coop Inc	2	4	0	0	0	6
Brunswick Electric Member Corp	*	18	5	0	0	23
BARC Electric Coop Inc	0	2	0	0	0	2
Camden City of	0	3	0	1	0	4
Carolina Power & Light Co	539	136	373	125	0	1,174
Carroll Electric Member Corp	*	0	0	0	0	*
Central Georgia El Member Corp	3	17	1	0	0	21
Central Virginia Electric Coop	0	0	33	0	52	85
Choctawhatche Elec Coop Inc	1	0	0	0	*	1
Clay Electric Coop Inc	0	44	2	12	0	59
Coast Electric Power Assn	0	0	0	0	20	20
Cobb Electric Membership Corp	19	0	0	0	0	19
Colquitt Electric Members Corp	0	9	0	0	0	9
Community Electric Coop	0	2	2	0	0	4
Coweta-Fayette El Member Corp	20	0	0	0	0	20
Dothan City of	0	5	0	0	0	5
Douglas City of	*	1	1	0	0	3
Duke Power Co	96	0	0	0	0	96
Easley Combined Utility System	0	3	0	8	0	11
East Point City of	0	5	1	0	0	7
Fairfield Electric Coop Inc	1	1	0	0	2	4
Fitzgerald Wtr Lgt & Bond Comm	0	1	0	0	0	1
Flint Electric Membership Corp	5	0	0	0	*	5
Florida Keys El Coop Assn Inc	0	3	0	0	0	3
Florida Power & Light Co	1,126	879	0	0	0	2,005
Florida Power Corp	291	1,156	326	0	66	1,839
Fort Pierce Utilities Auth	*	0	0	0	0	*
Gaffney City of	0	1	0	0	0	1
Gainesville Regional Utilities	13	0	0	3	0	16
Georgia Power Co	54	52	0	0	0	106
Grady County Elec Member Corp	1	0	1	0	0	1
Greenville Utilities Comm	5	20	12	0	4	42
Greer Comm of Public Works	0	1	0	3	0	4
GreyStone Power Corp	1	16	0	0	9	25
Griffin City of	0	2	0	0	0	2
Gulf Power Co	156	0	0	18	0	174
Harrisonburg City of	*	0	4	2	0	5
Hart Electric Member Corp	1	6	0	0	0	7
Haywood Electric Member Corp	*	4	*	0	0	4
High Point Town of	0	6	0	2	2	10
Jackson Electric Member Corp	0	39	11	0	0	49
Jacksonville Electric Auth	17	0	0	0	0	17

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, 1996

(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
SERC (Continued)						
Jefferson Electric Member Corp	1	9	3	0	0	12
Jones-Onslow Elec Member Corp	2	8	3	0	0	12
Kinston City of	0	2	15	4	0	20
Kissimmee Utility Authority	3	0	0	0	0	3
Lakeland City of	1	44	0	0	0	45
Lamar Electric Membership Corp	0	0	0	1	0	1
Laurens Electric Coop Inc	*	0	0	*	0	*
Laurinburg City of	0	3	0	0	0	3
Lawrenceville City of	0	4	0	1	0	4
Lee County Electric Coop Inc	6	56	6	0	0	68
Leesburg City of	0	3	0	5	3	11
Lumberton City of	0	2	0	0	0	2
Lynches River Elec Coop Inc	1	2	0	0	2	4
Manassas City of	0	21	0	0	0	21
Mecklenburg Electric Coop Inc	0	6	1	3	3	14
Mid-Carolina Electric Coop Inc	3	4	0	0	3	10
New Bern City of	0	6	0	4	0	10
New River Light & Power Co	0	*	0	0	0	*
New Smyrna Beach Utils Comm	0	8	0	0	0	8
Newberry City of	0	1	0	0	0	1
North Carolina Eastern M P A	0	53	15	89	23	180
North Carolina El Member Corp	0	168	88	0	0	256
North Carolina Mun Power Agny	0	22	7	32	0	61
Northern Neck Elec Coop Inc	0	3	0	0	0	3
Northern Virginia Elec Coop	1	29	2	0	0	32
Ocmulgee Electric Member Corp	0	1	0	0	0	1
Orangeburg City of	0	0	2	2	2	6
Orlando Utilities Comm	35	0	2	0	0	37
Palmetto Electric Coop Inc	1	7	4	3	0	15
Pee Dee Electric Coop Inc	1	2	0	0	*	4
Prince George Electric Coop	0	14	0	0	0	14
Rappahannock Electric Coop	0	27	6	0	0	33
Rayle Electric Membership Corp	*	1	1	0	0	2
Reedy Creek Improvement Dist	1	0	0	0	0	1
Rock Hill City of	0	3	0	0	4	7
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	2	0	0	0	0	2
Sawnee Electric Members Corp	*	19	0	1	0	20
Shenandoah Valley Elec Coop	0	11	3	0	0	13
Singing River Elec Power Assn	4	0	0	2	0	7
Smithfield Town of	0	2	0	0	0	2
South Carolina Electric&Gas Co	106	0	0	0	0	106
South Carolina Pub Serv Auth	35	16	0	0	0	51
South Mississippi El Pwr Assn	6	0	5	37	0	48
Southside Electric Coop Inc	0	6	5	3	0	14
Sumter Electric Coop Inc	7	35	10	0	0	52
Tallahassee City of	21	0	0	0	5	26
Tampa Electric Co	242	42	0	0	0	284
Tennessee Valley Authority	480	58	1,800	0	0	2,338
Thomasville City of	*	4	0	*	0	5
Tideland Electric Member Corp	0	8	4	0	0	12
Tri-County Elec Member Corp	0	0	0	*	0	*
Tri-County Elec Member Corp	0	3	*	0	0	3
Troup Electric Members Corp	0	8	0	0	0	8
Union City of	0	1	0	0	0	1
Virginia Electric & Power Co	91	0	12	2	0	105
Washington City of	0	11	0	0	0	11
Wilson City of	0	10	19	18	0	46
Withlacoochee River Elec Coop	0	0	0	41	0	41
York Electric Coop Inc	1	0	10	0	0	11
SERC Total	**3,468**	**3,221**	**2,793**	**508**	**212**	**10,203**

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, 1996
(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
SPP						
Alfalfa Electric Coop Inc	0	3	0	0	0	3
Altus City of	0	*	0	0	0	*
C & L Electric Coop Corp	0	0	1	0	0	1
Caddo Electric Coop Inc	0	11	0	0	0	11
Carroll Electric Coop Corp	0	9	0	0	0	9
Central Rural Electric Coop	0	5	*	0	0	5
Cookson Hills Elec Coop Inc	0	8	0	0	0	8
Craighead Electric Coop Corp	0	0	8	0	1	8
Delta Electric Power Assn	0	0	2	0	0	2
Dixie Electric Membership Corp	0	14	0	0	0	14
Duncan City of	*	0	0	0	0	*
Empire District Electric Co	0	0	21	0	0	21
Farmers ' Electric Coop Inc	0	0	5	0	0	5
First Electric Coop Corp	2	20	0	0	0	22
Grundy Electric Coop Inc	*	1	1	0	0	2
Independence City of	4	0	0	0	0	4
Indian Electric Coop Inc	0	3	0	0	0	3
Kansas City City of	0	0	33	0	0	33
Kansas City Power & Light Co	0	4	30	0	*	34
Kansas Electric Power Coop Inc	0	20	12	*	0	33
Kansas Gas & Electric Co	0	0	0	12	0	12
Mississippi Cnty Elec Coop Inc	0	2	0	0	0	2
North Arkansas Elec Coop Inc	0	5	0	0	0	5
Northeast Louisiana Power Coop	0	0	0	0	3	3
Oklahoma Gas & Electric Co	71	0	0	160	0	231
Oklahoma Municipal Power Auth	0	*	0	0	*	1
Osceola City of	0	0	4	0	0	4
Ozark Electric Coop Inc	0	2	0	0	0	2
Petit Jean Electric Coop Corp	0	3	0	0	0	3
Public Service Co of Oklahoma	57	0	0	0	0	57
Red River Valley Rrl Elec Assn	*	0	1	0	1	2
South Central Ark El Coop Inc	0	0	0	5	0	5
South Plains Electric Coop Inc	1	4	0	0	0	5
Southwestern Electric Power Co	13	0	0	0	0	13
Southwestern Public Service Co	28	0	139	0	0	168
Stillwater Utilities Authority	0	0	0	1	0	1
Verdigris Valley Elec Coop Inc	0	14	1	0	0	15
Western Resources Inc	0	12	113	0	7	132
White River Valley El Coop Inc	0	0	16	0	0	16
Woodruff Electric Coop Corp	0	26	0	4	0	30
SPP Total	**176**	**165**	**387**	**182**	**13**	**924**
WSCC(U.S.)						
Alameda City of	2	0	0	0	0	2
Anaheim City of	16	0	*	4	*	21
Arizona Electric Pwr Coop Inc	1	0	0	0	0	1
Arizona Public Service Co	439	0	0	67	0	506
Boulder City City of	5	0	0	0	0	5
Bountiful City City of	*	0	7	0	0	7
Colorado Springs City of	*	0	0	0	0	*
Dixie Escalante R E A Inc	0	0	4	0	0	4
El Paso Electric Co	4	0	52	3	8	66
Eugene City of	44	0	0	0	0	44
Fort Collins City of	0	2	1	0	0	2
Holy Cross Electric Assn Inc	0	*	0	10	0	10
Imperial Irrigation District	6	0	0	*	0	6
La Plata Electric Assn Inc	0	0	5	0	0	5
Longmont City of	1	2	0	*	2	5
Los Angeles City of	76	0	0	11	0	86
Loveland City of	*	0	0	1	1	2
Modesto Irrigation District	8	10	20	0	0	39
Mohave Electric Coop Inc	*	0	0	0	0	*
Montana Power Co	57	0	0	0	0	57
Mountain Parks Electric Inc	0	0	0	11	0	11
Mountain View Elec Assn Inc	0	29	0	0	0	29
Navopache Electric Coop Inc	*	1	0	7	2	9

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, 1996

(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
WSCC(U.S.) (Continued)						
Nevada Power Co	33	0	0	0	0	33
Pacific Gas & Electric Co	614	0	505	0	0	1,119
Palo Alto City of	6	0	0	0	0	6
Pasadena City of	5	0	0	1	0	7
Poudre Valley R E A Inc	1	0	0	*	0	1
Public Service Co of Colorado	66	0	232	0	0	298
PUD No 1 of Benton County	1	0	0	0	0	1
PUD No 1 of Clark County	9	0	0	0	0	9
PUD No 1 of Pend Oreille Cnty	1	0	0	0	0	1
PUD No 2 of Grant County	17	0	0	46	0	62
Redding City of	25	1	2	2	0	30
Roseville City of	3	2	0	0	0	5
Sacramento Municipal Util Dist	139	157	60	24	49	429
Salt River Proj Ag I & P Dist	86	0	0	51	0	136
San Diego Gas & Electric Co	196	0	41	6	0	243
San Miguel Power Assn Inc	0	1	0	0	0	1
Santa Clara City of	0	0	7	0	0	7
Seattle City of	60	0	0	0	0	60
Southern California Edison Co	1,466	0	0	148	0	1,614
Springfield City of	4	0	0	0	0	4
Sulphur Springs Valley E C Inc	0	2	0	0	0	2
Trico Electric Coop Inc	0	0	1	0	0	1
Tucson Electric Power Co	32	0	6	0	0	38
Turlock Irrigation District	2	0	0	0	0	2
United Power Inc	*	0	3	5	*	8
Utah Municipal Power Agency	1	*	0	0	0	1
Vernon City of	0	0	0	8	*	8
Washington Water Power Co	90	0	0	0	0	90
Yellowstone Valley Elec Co-op	0	0	0	1	0	1
WSCC(U.S.) Total	**3,517**	**206**	**945**	**405**	**62**	**5,134**
Contiguous U.S.	**14,233**	**5,573**	**7,387**	**2,270**	**405**	**29,869**
ASCC						
Alaska Electric Light&Power Co	0	3	3	0	0	5
Golden Valley Elec Assn Inc	2	0	0	0	0	2
ASCC Total	**2**	**3**	**3**	**0**	**0**	**7**
Hawaii						
Hawaii Electric Light Co Inc	3	0	0	0	0	3
Hawaiian Electric Co Inc	5	0	0	0	0	5
Maui Electric Co Ltd	*	0	0	8	1	9
Hawaii Total	**8**	**0**	**0**	**8**	**1**	**17**
U.S. Total	**14,243**	**5,575**	**7,390**	**2,278**	**407**	**29,893**

* 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.''

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, 1996

(Megawatts)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
ECAR						
American Mun Power-Ohio Inc	Publicly Owned	0	0	7	1	7
Appalachian Power Co	Investor-Owned	37	1	1	0	40
Buckeye Power Inc	Cooperative	103	0	25	0	128
Cincinnati Gas & Electric Co	Investor-Owned	26	30	112	0	168
Columbus Southern Power Co	Investor-Owned	12	1	3	0	16
Consumers Energy Co	Investor-Owned	11	21	55	0	88
Crawfordsville Elec Lgt&Pwr Co	Publicly Owned	0	0	*	0	*
Dayton Power & Light Co	Investor-Owned	17	17	132	0	166
Detroit Edison Co	Investor-Owned	162	13	504	0	678
East Kentucky Power Coop Inc	Cooperative	34	0	0	0	34
Hagerstown City of	Publicly Owned	*	0	0	0	*
Harrison County Rural E C C	Cooperative	*	0	0	0	*
Indiana Michigan Power Co	Investor-Owned	7	1	81	0	89
Indiana Municipal Power Agency	Publicly Owned	3	0	0	0	3
Indianapolis Power & Light Co	Investor-Owned	4	17	42	0	63
Kentucky Power Co	Investor-Owned	11	*	13	0	24
Kentucky Utilities Co	Investor-Owned	17	1	34	7	59
Kingsport Power Co	Investor-Owned	4	0	0	0	4
Lansing City of	Publicly Owned	0	1	0	0	1
Louisville Gas & Electric Co	Investor-Owned	*	1	52	0	53
Monongahela Power Co	Investor-Owned	26	33	28	0	86
Ohio Edison Co	Investor-Owned	15	18	10	0	43
Ohio Power Co	Investor-Owned	17	*	151	0	169
Owen Electric Coop Inc	Cooperative	1	*	*	0	1
Owensboro City of	Publicly Owned	0	0	5	0	5
Pennsylvania Power Co	Investor-Owned	0	0	40	0	40
Potomac Edison Co	Investor-Owned	84	45	67	0	195
PSI Energy Inc	Investor-Owned	20	55	37	1	114
Southern Indiana Gas & Elec Co	Investor-Owned	33	13	8	0	55
Union Light Heat & Power Co	Investor-Owned	1	*	*	0	1
Wabash Valley Power Assn Inc	Cooperative	40	0	0	0	40
Wadsworth City of	Publicly Owned	0	0	10	0	10
West Penn Power Co	Investor-Owned	16	26	116	0	157
Wheeling Power Co	Investor-Owned	1	0	0	0	1
Wolverine Pwr Supply Coop Inc	Cooperative	10	0	0	0	10
ECAR Total		**711**	**294**	**1,533**	**9**	**2,547**
ERCOT						
Austin City of	Publicly Owned	204	119	0	0	323
Brazos Electric Power Coop Inc	Cooperative	7	*	0	0	7
Bryan City of	Publicly Owned	13	*	5	5	23
Central Power & Light Co	Investor-Owned	36	23	0	0	59
College Station City of	Publicly Owned	*	1	0	0	1
East Texas Electric Coop Inc	Cooperative	*	0	0	0	*
Georgetown City of	Publicly Owned	1	0	0	*	1
Greenville Electric Util Sys	Publicly Owned	0	0	2	0	2
Guadalupe Valley Elec Coop Inc	Cooperative	7	*	60	6	73
Houston Lighting & Power Co	Investor-Owned	64	33	3	0	100
Lower Colorado River Authority	Publicly Owned	82	6	26	0	115
Magic Valley Electric Coop Inc	Cooperative	7	1	1	*	9
Medina Electric Coop Inc	Cooperative	0	0	0	8	8
San Bernard Electric Coop Inc	Cooperative	2	0	4	0	6
San Marcos City of	Publicly Owned	2	1	0	0	3
Texas Utilities Electric Co	Investor-Owned	555	706	0	0	1,262
West Texas Utilities Co	Investor-Owned	2	1	6	0	10
ERCOT Total		**984**	**891**	**108**	**19**	**2,002**
MAAC						
A & N Electric Coop	Cooperative	2	0	0	0	2
Allegheny Electric Coop Inc	Cooperative	52	6	8	3	70
Baltimore Gas & Electric Co	Investor-Owned	49	153	0	0	202
Choptank Electric Coop Inc	Cooperative	3	0	5	0	8
Delaware Electric Coop Inc	Cooperative	11	0	0	0	11
Delmarva Power & Light Co	Investor-Owned	13	22	0	0	36
Jersey Central Power&Light Co	Investor-Owned	54	96	0	0	150
Metropolitan Edison Co	Investor-Owned	95	23	102	0	220
Pennsylvania Electric Co	Investor-Owned	19	11	38	0	68
Pennsylvania Power & Light Co	Investor-Owned	15	10	4	1	30
Potomac Electric Power Co	Investor-Owned	88	332	0	0	420

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, 1996
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
MAAC (Continued)						
Public Service Electric&Gas Co	Investor-Owned	207	173	134	0	514
Southern Maryland El Coop Inc	Cooperative	42	*	0	0	42
MAAC Total		**650**	**827**	**292**	**5**	**1,773**
MAIN						
Boone Electric Coop	Cooperative	3	0	0	*	3
Central Illinois Light Co	Investor-Owned	0	0	116	0	116
Coles-Moultrie Electric Coop	Cooperative	3	0	7	0	10
Columbia City of	Publicly Owned	5	2	4	0	12
Commonwealth Edison Co	Investor-Owned	30	203	1	0	234
Corn Belt Electric Coop Inc	Cooperative	12	5	0	0	17
Cuivre River Electric Coop Inc	Cooperative	3	3	0	1	7
Eastern Illini Electric Coop	Cooperative	7	0	4	0	11
Madison Gas & Electric Co	Investor-Owned	6	57	0	3	66
Manitowoc Public Utilities	Publicly Owned	1	1	1	0	3
Marshfield City of	Publicly Owned	*	1	*	0	1
Shelby Electric Coop Inc	Cooperative	*	6	5	0	11
Southwestern Electric Coop Inc	Cooperative	9	6	7	0	21
Springfield City of	Publicly Owned	5	3	0	0	8
Tri-County Electric Coop Inc	Cooperative	*	7	4	0	11
Union Electric Co	Investor-Owned	4	3	128	0	134
Wisconsin Electric Power Co	Investor-Owned	94	174	395	0	663
Wisconsin Power & Light Co	Investor-Owned	9	64	0	6	79
Wisconsin Public Power Inc Sys	Publicly Owned	3	10	16	0	29
Wisconsin Public Service Corp	Investor-Owned	53	126	0	10	190
MAIN Total		**247**	**672**	**686**	**20**	**1,625**
MAPP(U.S.)						
Ames City of	Publicly Owned	1	0	0	0	1
Anoka City of	Publicly Owned	*	*	*	0	*
Austin City of	Publicly Owned	1	1	1	0	3
Barron Electric Coop	Cooperative	4	0	*	0	4
Capital Electric Coop Inc	Cooperative	*	2	0	0	2
Cass County Electric Coop Inc	Cooperative	50	9	5	0	64
Cedar Falls City of	Publicly Owned	*	*	0	0	*
Central Iowa Power Coop	Cooperative	*	0	0	0	*
Central Power Elec Coop Inc	Cooperative	6	7	2	0	15
Chaska City of	Publicly Owned	0	*	1	2	2
Clark Electric Coop	Cooperative	3	0	*	0	3
Coop Power Assn	Cooperative	1	8	0	0	9
Dawson County Public Pwr Dist	Publicly Owned	0	0	*	0	*
Denison City of	Publicly Owned	1	1	0	0	2
East Grand Forks City of	Publicly Owned	1	0	0	0	1
East River Elec Power Coop Inc	Cooperative	38	0	15	0	53
Eau Claire Electric Coop	Cooperative	3	0	*	0	4
Fairmont Public Utilities Comm	Publicly Owned	2	*	1	0	3
Freeborn-Mower Electric Coop	Cooperative	1	0	3	0	4
Grant-Lafayette Electric Coop	Cooperative	4	0	1	0	5
Interstate Power Co	Investor-Owned	4	6	16	0	26
Iowa Lakes Electric Coop	Cooperative	5	1	2	*	9
IES Utilities Inc	Investor-Owned	61	35	49	0	145
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	3	0	1	4
Loup River Public Power Dist	Publicly Owned	0	0	6	0	6
Marshall City of	Publicly Owned	1	1	1	0	3
Midland Power Coop	Cooperative	*	0	0	0	*
MidAmerican Energy Co	Investor-Owned	78	54	168	0	300
Minnesota Power & Light Co	Investor-Owned	6	11	225	0	243
Minnkota Power Coop Inc	Cooperative	275	25	0	0	300
Moorhead City of	Publicly Owned	9	1	3	0	13
Mountrail-Williams Elec Coop	Cooperative	4	0	0	0	4
Municipal Energy Agency of NE	Publicly Owned	7	10	1	8	25
MDU Resources Group Inc	Investor-Owned	0	9	*	0	9
Nebraska Public Power District	Publicly Owned	13	0	214	0	227
Nodak Electric Coop Inc	Cooperative	47	15	2	1	65
Northern States Power Co of MN	Investor-Owned	273	490	293	0	1,056
Northern States Power Co of WI	Investor-Owned	48	68	79	1	196

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, 1996
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
MAPP(U.S.) (Continued)						
Northwest Iowa Power Coop	Cooperative	14	*	0	0	14
Northwestern Public Service Co	Investor-Owned	0	*	0	0	*
Northwestern Wisconsin Elec Co	Investor-Owned	*	*	*	0	1
Oakdale Electric Coop	Cooperative	2	0	*	0	2
Oliver-Mercer Elec Coop Inc	Cooperative	2	0	0	2	4
Omaha Public Power District	Publicly Owned	4	1	0	0	5
Otter Tail Power Co	Investor-Owned	32	16	8	0	57
Owatonna City of	Publicly Owned	2	*	6	0	8
People 's Coop Power Assn	Cooperative	1	0	*	0	1
Pierre City of	Publicly Owned	4	1	*	0	5
Polk-Burnett Electric Coop	Cooperative	10	0	0	0	10
R S R Electric Coop Inc	Cooperative	3	0	0	0	3
Rice Lake Utilities	Publicly Owned	2	1	*	0	3
Rochester Public Utilities	Publicly Owned	*	1	*	0	1
Roseau Electric Coop Inc	Cooperative	22	0	0	0	22
Shakopee Public Utilities Comm	Publicly Owned	*	1	0	*	1
Spencer City of	Publicly Owned	*	*	0	*	*
Superior Water Light&Power Co	Investor-Owned	*	*	*	0	1
Thief River Falls City of	Publicly Owned	4	3	0	0	7
Trempealeau Electric Coop	Cooperative	4	*	0	0	4
Tri-County Electric Coop	Cooperative	7	0	1	0	7
United Power Assn	Cooperative	112	5	0	0	117
Verendrye Electric Coop Inc	Cooperative	5	1	0	0	6
Vernon Electric Coop	Cooperative	4	0	1	0	5
York County Rural Pub Pwr Dist	Publicly Owned	0	0	15	0	15
MAPP(U.S.) Total		1,186	786	1,120	15	3,106
NPCC(U.S.)						
Bangor Hydro-Electric Co	Investor-Owned	6	4	1	0	11
Blackstone Valley Electric Co	Investor-Owned	**1**	**3**	**4**	**0**	**7**
Boston Edison Co	Investor-Owned	1	1	*	0	2
Braintree Town of	Publicly Owned	*	0	3	0	3
Burlington City of	Publicly Owned	5	1	4	0	10
Cambridge Electric Light Co	Investor-Owned	*	19	0	0	19
Central Hudson Gas & Elec Corp	Investor-Owned	5	17	11	0	33
Central Maine Power Co	Investor-Owned	37	26	39	*	102
Central Vermont Pub Serv Corp	Investor-Owned	9	9	4	0	21
Chicopee City of	Publicly Owned	1	1	*	0	2
Citizens Utilities Co	Investor-Owned	3	2	2	0	7
Commonwealth Electric Co	Investor-Owned	5	25	0	0	30
Concord Electric Co	Investor-Owned	1	*	*	0	2
Connecticut Light & Power Co	Investor-Owned	41	255	87	0	383
Consolidated Edison Co-NY Inc	Investor-Owned	48	586	0	0	634
Eastern Edison Co	Investor-Owned	8	9	3	0	20
Exeter & Hampton Electric Co	Investor-Owned	1	1	*	0	2
Fitchburg Gas & Elec Light Co	Investor-Owned	*	1	1	0	3
Granite State Electric Co	Investor-Owned	1	5	3	0	9
Green Mountain Power Corp	Investor-Owned	15	12	0	0	27
Hingham City of	Publicly Owned	2	*	*	0	3
Holyoke City of	Publicly Owned	2	*	*	*	2
Jamestown City of	Publicly Owned	0	2	*	0	2
Long Island Lighting Co	Investor-Owned	44	135	0	0	179
Maine Public Service Co	Investor-Owned	1	*	0	*	1
Massachusetts Electric Co	Investor-Owned	12	113	69	0	194
Massena Town of	Publicly Owned	1	*	0	*	1
Narragansett Electric Co	Investor-Owned	2	38	23	0	63
New England Power Co	Investor-Owned	16	0	0	0	16
New Hampshire Elec Coop Inc	Cooperative	*	*	0	0	1
New York State Elec & Gas Corp	Investor-Owned	63	83	0	0	147
Newport Electric Corp	Investor-Owned	*	2	*	0	3
Niagara Mohawk Power Corp	Investor-Owned	52	129	13	0	195
Norwood City of	Publicly Owned	1	*	1	7	9
Omya Inc	Investor-Owned	*	0	0	0	*
Orange & Rockland Utils Inc	Investor-Owned	25	110	0	0	134
Power Authority of State of NY	Publicly Owned	16	48	1	0	65
Public Service Co of NH	Investor-Owned	*	5	2	0	7
Reading Town of	Publicly Owned	*	6	0	0	6
Rochester Gas & Electric Corp	Investor-Owned	*	0	37	0	37

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, 1996
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
NPCC(U.S.) (Continued)						
Shrewsbury Town of	Publicly Owned	2	1	1	*	3
Taunton City of	Publicly Owned	*	3	0	0	3
United Illuminating Co	Investor-Owned	17	26	47	0	90
Vermont Electric Coop Inc	Cooperative	1	*	0	*	1
Wellesley Town of	Publicly Owned	0	0	0	*	*
Western Massachusetts Elec Co	Investor-Owned	14	36	16	0	66
NPCC(U.S.) Total		459	1,713	375	8	2,555
SERC						
Aiken Electric Coop Inc	Cooperative	5	0	0	0	5
Alabama Electric Coop Inc	Cooperative	**38**	**0**	*	**0**	**38**
Alabama Municipal Elec Auth	Publicly Owned	3	*	0	0	3
Alabama Power Co	Investor-Owned	78	20	0	0	98
Albemarle City of	Publicly Owned	0	*	*	0	*
Altamaha Electric Member Corp	Cooperative	*	*	0	*	*
Amicalola Electric Member Corp	Cooperative	2	0	0	0	2
Berkeley Electric Coop Inc	Cooperative	30	2	0	0	33
Black River Electric Coop Inc	Cooperative	6	0	0	0	6
Brunswick Electric Member Corp	Cooperative	18	5	0	0	23
BARC Electric Coop Inc	Cooperative	2	0	0	0	2
Camden City of	Publicly Owned	3	1	0	0	4
Carolina Power & Light Co	Investor-Owned	345	127	702	0	1,174
Carroll Electric Member Corp	Cooperative	*	0	0	0	*
Central Georgia El Member Corp	Cooperative	16	0	5	0	21
Central Virginia Electric Coop	Cooperative	0	33	0	52	85
Choctawhatche Elec Coop Inc	Cooperative	1	0	0	0	1
Clay Electric Coop Inc	Cooperative	57	0	2	0	59
Coast Electric Power Assn	Cooperative	0	0	0	20	20
Cobb Electric Membership Corp	Cooperative	19	0	0	0	19
Colquitt Electric Members Corp	Cooperative	5	1	3	0	9
Community Electric Coop	Cooperative	2	2	0	0	4
Coweta-Fayette El Member Corp	Cooperative	20	0	0	0	20
Dothan City of	Publicly Owned	5	0	0	0	5
Douglas City of	Publicly Owned	1	1	1	0	3
Duke Power Co	Investor-Owned	70	20	5	0	96
Easley Combined Utility System	Publicly Owned	3	0	0	8	11
East Point City of	Publicly Owned	3	4	0	0	7
Fairfield Electric Coop Inc	Cooperative	4	0	0	0	4
Fitzgerald Wtr Lgt & Bond Comm	Publicly Owned	1	0	0	0	1
Flint Electric Membership Corp	Cooperative	5	0	0	0	5
Florida Keys El Coop Assn Inc	Cooperative	2	*	*	0	3
Florida Power & Light Co	Investor-Owned	1,240	765	0	0	2,005
Florida Power Corp	Investor-Owned	1,343	81	382	32	1,839
Fort Pierce Utilities Auth	Publicly Owned	*	0	0	0	*
Gaffney City of	Publicly Owned	1	0	0	0	1
Gainesville Regional Utilities	Publicly Owned	8	7	0	0	16
Georgia Power Co	Investor-Owned	38	37	30	0	106
Grady County Elec Member Corp	Cooperative	1	0	1	0	1
Greenville Utilities Comm	Publicly Owned	19	1	22	0	42
Greer Comm of Public Works	Publicly Owned	4	0	0	0	4
GreyStone Power Corp	Cooperative	17	2	0	7	25
Griffin City of	Publicly Owned	1	1	0	0	2
Gulf Power Co	Investor-Owned	75	81	18	0	174
Harrisonburg City of	Publicly Owned	*	2	3	*	5
Hart Electric Member Corp	Cooperative	7	0	0	0	7
Haywood Electric Member Corp	Cooperative	4	*	*	0	4
High Point Town of	Publicly Owned	3	3	0	4	10
Jackson Electric Member Corp	Cooperative	34	4	11	0	49
Jacksonville Electric Auth	Publicly Owned	16	1	*	0	17
Jefferson Electric Member Corp	Cooperative	8	1	*	3	12
Jones-Onslow Elec Member Corp	Cooperative	10	3	0	0	12
Kinston City of	Publicly Owned	2	3	9	6	20
Kissimmee Utility Authority	Publicly Owned	2	1	0	*	3
Lakeland City of	Publicly Owned	45	0	0	0	45
Lamar Electric Membership Corp	Cooperative	0	0	1	*	1
Laurens Electric Coop Inc	Cooperative	*	0	0	0	*
Laurinburg City of	Publicly Owned	3	*	0	0	3
Lawrenceville City of	Publicly Owned	2	1	0	2	4

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, 1996
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
SERC (Continued)						
Lee County Electric Coop Inc	Cooperative	60	8	0	0	68
Leesburg City of	Publicly Owned	7	1	3	0	11
Lumberton City of	Publicly Owned	2	0	0	0	2
Lynches River Elec Coop Inc	Cooperative	4	0	0	0	4
Manassas City of	Publicly Owned	21	0	0	0	21
Mecklenburg Electric Coop Inc	Cooperative	9	1	4	*	14
Mid-Carolina Electric Coop Inc	Cooperative	10	0	0	0	10
New Bern City of	Publicly Owned	6	*	4	0	10
New River Light & Power Co	Publicly Owned	*	0	0	0	*
New Smyrna Beach Utils Comm	Publicly Owned	8	0	0	0	8
Newberry City of	Publicly Owned	1	0	0	0	1
North Carolina Eastern M P A	Publicly Owned	37	18	80	45	180
North Carolina El Member Corp	Cooperative	168	0	88	0	256
North Carolina Mun Power Agny	Publicly Owned	20	2	7	31	61
Northern Neck Elec Coop Inc	Cooperative	3	*	0	0	3
Northern Virginia Elec Coop	Cooperative	23	7	3	0	32
Ocmulgee Electric Member Corp	Cooperative	*	1	0	0	1
Orangeburg City of	Publicly Owned	2	1	2	2	6
Orlando Utilities Comm	Publicly Owned	9	27	0	0	37
Palmetto Electric Coop Inc	Cooperative	11	4	0	0	15
Pee Dee Electric Coop Inc	Cooperative	4	0	0	0	4
Prince George Electric Coop	Cooperative	14	0	0	0	14
Rappahannock Electric Coop	Cooperative	27	0	6	0	33
Rayle Electric Membership Corp	Cooperative	1	*	1	0	2
Reedy Creek Improvement Dist	Publicly Owned	0	1	0	0	1
Rock Hill City of	Publicly Owned	7	0	0	0	7
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	2	*	0	0	2
Sawnee Electric Members Corp	Cooperative	19	*	1	0	20
Shenandoah Valley Elec Coop	Cooperative	11	3	0	0	13
Singing River Elec Power Assn	Cooperative	4	0	2	0	7
Smithfield Town of	Publicly Owned	2	*	0	0	2
South Carolina Electric&Gas Co	Investor-Owned	92	14	1	0	106
South Carolina Pub Serv Auth	Publicly Owned	50	1	0	0	51
South Mississippi El Pwr Assn	Cooperative	6	0	42	0	48
Southside Electric Coop Inc	Cooperative	6	0	5	3	14
Sumter Electric Coop Inc	Cooperative	41	2	10	0	52
Tallahassee City of	Publicly Owned	26	1	0	0	26
Tampa Electric Co	Investor-Owned	260	22	2	0	284
Tennessee Valley Authority	Federal	538	0	1,800	0	2,338
Thomasville City of	Publicly Owned	4	*	0	0	5
Tideland Electric Member Corp	Cooperative	8	4	0	0	12
Tri-County Elec Member Corp	Cooperative	0	0	0	0	0
Tri-County Elec Member Corp	Cooperative	3	*	0	0	3
Troup Electric Members Corp	Cooperative	8	0	0	0	8
Union City of	Publicly Owned	1	0	0	0	1
Virginia Electric & Power Co	Investor-Owned	80	11	2	12	105
Washington City of	Publicly Owned	3	*	8	0	11
Wilson City of	Publicly Owned	10	2	34	1	46
Withlacoochee River Elec Coop	Cooperative	41	0	0	0	41
York Electric Coop Inc	Cooperative	1	6	4	0	11
SERC Total		5,307	1,348	3,318	230	10,203
SPP						
Alfalfa Electric Coop Inc	Cooperative	0	3	0	0	3
Altus City of	Publicly Owned	*	*	*	0	*
C & L Electric Coop Corp	Cooperative	0	0	1	0	1
Caddo Electric Coop Inc	Cooperative	1	0	0	10	11
Carroll Electric Coop Corp	Cooperative	9	*	0	0	9
Central Rural Electric Coop	Cooperative	3	*	2	0	5
Cookson Hills Elec Coop Inc	Cooperative	8	*	0	0	8
Craighead Electric Coop Corp	Cooperative	0	1	8	0	8
Delta Electric Power Assn	Cooperative	0	0	2	0	2
Dixie Electric Membership Corp	Cooperative	14	0	0	0	14
Duncan City of	Publicly Owned	*	*	0	0	*
Empire District Electric Co	Investor-Owned	0	0	21	0	21
Farmers ' Electric Coop Inc	Cooperative	0	3	2	0	5

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, 1996
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
SPP (Continued)						
First Electric Coop Corp	Cooperative	14	0	8	0	22
Grundy Electric Coop Inc	Cooperative	1	0	1	0	2
Independence City of	Publicly Owned	4	0	0	0	4
Indian Electric Coop Inc	Cooperative	2	1	0	0	3
Kansas City City of	Publicly Owned	0	0	33	0	33
Kansas City Power & Light Co	Investor-Owned	4	15	15	0	34
Kansas Electric Power Coop Inc	Cooperative	4	10	0	18	33
Kansas Gas & Electric Co	Investor-Owned	0	0	12	0	12
Mississippi Cnty Elec Coop Inc	Cooperative	0	2	0	0	2
North Arkansas Elec Coop Inc	Cooperative	5	0	0	0	5
Northeast Louisiana Power Coop	Cooperative	0	3	0	0	3
Oklahoma Gas & Electric Co	Investor-Owned	188	38	5	0	231
Oklahoma Municipal Power Auth	Publicly Owned	1	0	0	0	1
Osceola City of	Publicly Owned	0	0	4	0	4
Ozark Electric Coop Inc	Cooperative	0	2	0	0	2
Petit Jean Electric Coop Corp	Cooperative	3	0	0	0	3
Public Service Co of Oklahoma	Investor-Owned	54	3	0	0	57
Red River Valley Rrl Elec Assn	Cooperative	*	1	1	0	2
South Central Ark El Coop Inc	Cooperative	0	0	5	0	5
South Plains Electric Coop Inc	Cooperative	1	0	0	4	5
Southwestern Electric Power Co	Investor-Owned	13	0	0	0	13
Southwestern Public Service Co	Investor-Owned	27	0	96	45	168
Stillwater Utilities Authority	Publicly Owned	0	0	1	0	1
Verdigris Valley Elec Coop Inc	Cooperative	14	0	1	0	15
Western Resources Inc	Investor-Owned	12	0	37	83	132
White River Valley El Coop Inc	Cooperative	0	16	0	0	16
Woodruff Electric Coop Corp	Cooperative	1	0	4	25	30
SPP Total		381	99	259	185	924
WSCC(U.S.)						
Alameda City of	Publicly Owned	*	1	0	1	2
Anaheim City of	Publicly Owned	**8**	**9**	**4**	**0**	**21**
Arizona Electric Pwr Coop Inc	Cooperative	0	1	0	0	1
Arizona Public Service Co	Investor-Owned	379	127	0	0	506
Boulder City City of	Publicly Owned	4	*	0	0	5
Bountiful City City of	Publicly Owned	*	*	7	0	7
Colorado Springs City of	Publicly Owned	0	*	*	0	*
Dixie Escalante R E A Inc	Cooperative	0	0	0	4	4
El Paso Electric Co	Investor-Owned	0	18	48	0	66
Eugene City of	Publicly Owned	35	7	3	0	44
Fort Collins City of	Publicly Owned	2	0	1	0	2
Holy Cross Electric Assn Inc	Cooperative	*	0	10	0	10
Imperial Irrigation District	Publicly Owned	6	1	0	0	6
La Plata Electric Assn Inc	Cooperative	0	0	5	0	5
Longmont City of	Publicly Owned	1	3	1	*	5
Los Angeles City of	Publicly Owned	29	49	8	0	86
Loveland City of	Publicly Owned	1	0	0	1	2
Modesto Irrigation District	Publicly Owned	14	4	20	0	39
Mohave Electric Coop Inc	Cooperative	*	*	0	0	*
Montana Power Co	Investor-Owned	22	27	4	5	57
Mountain Parks Electric Inc	Cooperative	*	1	10	0	11
Mountain View Elec Assn Inc	Cooperative	8	21	0	0	29
Navopache Electric Coop Inc	Cooperative	6	1	2	0	9
Nevada Power Co	Investor-Owned	9	24	0	0	33
Pacific Gas & Electric Co	Investor-Owned	136	343	580	61	1,119
Palo Alto City of	Publicly Owned	0	6	0	0	6
Pasadena City of	Publicly Owned	*	6	0	0	7
Poudre Valley R E A Inc	Cooperative	1	*	*	0	1
Public Service Co of Colorado	Investor-Owned	9	27	261	0	298
PUD No 1 of Benton County	Publicly Owned	1	0	0	0	1
PUD No 1 of Clark County	Publicly Owned	0	9	0	0	9
PUD No 1 of Pend Oreille Cnty	Publicly Owned	*	*	1	0	1
PUD No 2 of Grant County	Publicly Owned	4	1	48	10	62
Redding City of	Publicly Owned	23	4	2	1	30
Roseville City of	Publicly Owned	3	1	1	0	5
Sacramento Municipal Util Dist	Publicly Owned	225	204	0	1	429
Salt River Proj Ag I & P Dist	Publicly Owned	101	36	0	0	136
San Diego Gas & Electric Co	Investor-Owned	39	205	0	0	243

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, 1996
(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Residential	Commercial	Industrial	Other	Total
WSCC(U.S.) (Continued)						
San Miguel Power Assn Inc	Cooperative	0	1	0	0	1
Santa Clara City of	Publicly Owned	0	0	7	0	7
Seattle City of	Publicly Owned	22	30	5	3	60
Southern California Edison Co	Investor-Owned	364	832	336	82	1,614
Springfield City of	Publicly Owned	1	2	1	0	4
Sulphur Springs Valley E C Inc	Cooperative	0	0	0	2	2
Trico Electric Coop Inc	Cooperative	0	0	1	0	1
Tucson Electric Power Co	Investor-Owned	10	22	6	0	38
Turlock Irrigation District	Publicly Owned	1	1	1	0	2
United Power Inc	Cooperative	2	5	2	0	8
Utah Municipal Power Agency	Publicly Owned	*	*	0	1	1
Vernon City of	Publicly Owned	0	0	8	0	8
Washington Water Power Co	Investor-Owned	73	11	6	0	90
Yellowstone Valley Elec Co-op	Cooperative	1	0	0	0	1
WSCC(U.S.) Total		1,540	2,038	1,386	170	5,134
Contiguous U.S.		11,464	8,668	9,076	661	29,869
ASCC						
Alaska Electric Light&Power Co	Investor-Owned	**3**	**3**	**0**	**0**	**5**
Golden Valley Elec Assn Inc	Cooperative	**1**	**1**	*****	**0**	**2**
ASCC Total		3	3	*	0	7
Hawaii						
Hawaii Electric Light Co Inc	Investor-Owned	2	1	0	0	3
Hawaiian Electric Co Inc	Investor-Owned	**1**	**4**	**0**	**0**	**5**
Maui Electric Co Ltd	Investor-Owned	*	2	8	0	9
Hawaii Total		3	6	8	0	17
U.S. Total		11,471	8,678	9,083	661	29,893

* 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.''

Cost

Utility costs[10] 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 costs are the summation of direct utility costs and indirect utility costs.

In 1996, total utility costs for large utilities with DSM programs was $1.9 billion, approximately $519.1 million less than 1995.[11] For 1997 and 2001, total utility costs are predicted to stay approximately the same (Table 21).

The declining DSM costs can be attributed partly to competition in the electric power industry. In a competitive industry, consumers who use DSM programs will usually 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, 19.9 percent spent less than 0.1 percent of revenues on DSM, 51.4 percent spent between 0.1 and and 1 percent of revenues on DSM, and 28.7 percent spent more than 1 percent of revenues on DSM. There were 46 cooperatives, 45 investor-owned utilities, and 40 publicly owned utilities that spent more than 1 percent of revenues on DSM. Of the utilities spending between 0.1 and 1 percent, 88 were publicly owned, 84 were cooperatives, and 63 were investor-owned utilities (Figure 8).

In 1996, the 100 utilities that spent the most on DSM activities accounted for 98.0 percent of total DSM costs; the 50 utilities that spent the most on DSM accounted for 84.8 percent of the total costs; and the top 25 utilities accounted for 69.9 percent (Figure 9). These 100, 50, and 25 utilities that had the greatest costs for DSM programs represented 58.4, 43.3, and 25.8 percent, respectively, of total retail sales of electricity in the United States.

In 1996, investor-owned utilities spent the most on DSM, $1.5 billion, followed by[12] publicly owned utilities, $159.8 million; Federally owned utilities, $101.6 million and cooperatives, $92.3 million. Publicly owned utilities predicted a 13.8 percent increase for 1997. For 2001, all classes of ownership anticipated spending reductions except cooperatives (Table 21).

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 1996, direct utility costs for large utilities was $1.6 billion. Of direct utility costs, 64.8 percent were for energy efficiency programs, amounting to $1.1 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, SERC had the greatest share of direct utility costs, $500.1 million, mainly because within the SERC there were a number of large utilities promoting DSM programs.

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,[13] or other[14]). Indirect utility costs for 1996 were $278.6 million, with the greatest portion of these costs for administrative costs.

Among the NERC regions, WSCC had the highest share of indirect utility costs, $91.9 million, followed by SERC with $50.9 million (Table 24).

[10] 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.

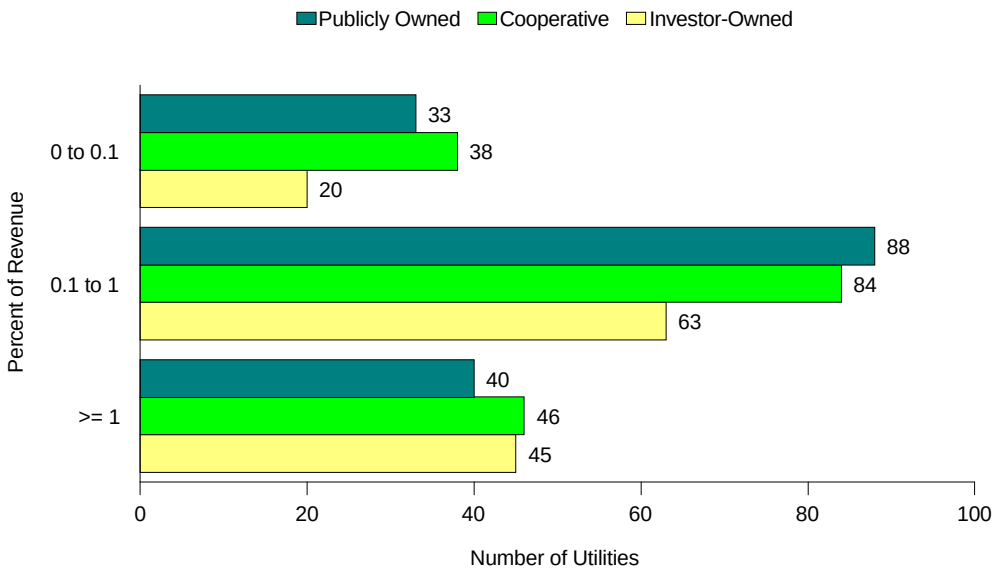
[11] Small utilities are not included in this section as they report only total utility cost and not a breakdown into direct and indirect costs.

[12] 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.

[13] Utility-earned incentives are not included in this publication.

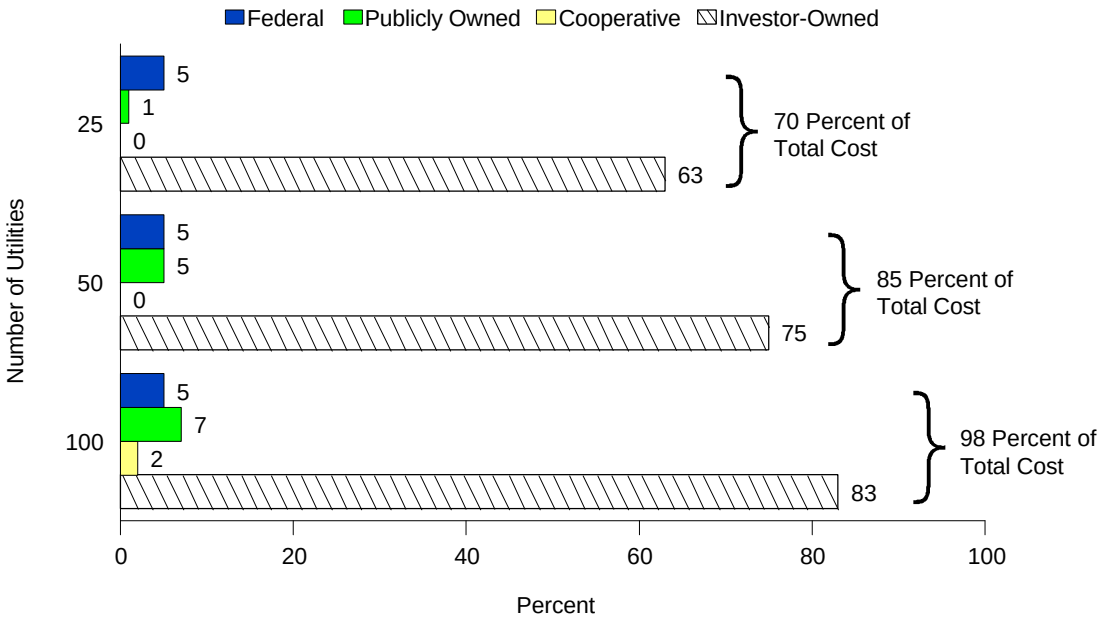
[14] Other costs include the indirect cost of DSM that cannot be attributed to any other cost category, particularly research and development.

Figure 8. U.S. Electric Utility DSM Program Costs as a Percentage of Retail Revenue by Number of Utilities with DSM Costs, 1996



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

Figure 9. The Top 25, 50, and 100 U.S. Electric Utilities with the Greatest DSM Program Costs by Class of Ownership, 1996



Note: Totals may not equal sum of components because of independent rounding. No cooperatives were included in the top 25 or 50 utilities.

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

Table 21. U.S. Electric Utility DSM Program Costs by Class of Ownership, 1992 Through 1996, 1997, and 2001

(Thousand Dollars)

Class of Ownership	Historical Costs					Projected Costs	
	1992	1993	1994	1995	1996	1997	2001
Investor-Owned	1,918,803	2,251,227	2,190,646	1,951,874	1,548,510	1,615,891	1,549,590
Publicly Owned	163,075	166,774	183,274	185,294	159,849	181,890	159,962
Cooperative	81,553	87,818	95,244	93,073	92,258	97,280	97,522
Federal	184,663	237,714	246,493	191,020	101,580	81,329	7,773
U.S. Total	**2,348,094**	**2,743,533**	**2,715,657**	**2,421,261**	**1,902,197**	**1,976,390**	**1,814,847**

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 22. U.S. Electric Utility DSM Program Costs by North American Electric Reliability Council Region and Hawaii by Class of Ownership, 1995, 1996, 1997, and 2001

(Thousand Dollars)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1995	1996	1997	2001
ECAR					
American Mun Power-Ohio Inc	Publicly Owned	48	51	46	50
Appalachian Power Co	Investor-Owned	1,989	1,219	754	858
Buckeye Power Inc	Cooperative	800	1,000	1,800	3,500
Cincinnati Gas & Electric Co	Investor-Owned	9,883	11,190	6,157	7,233
Cleveland Electric Illum Co	Investor-Owned	2,722	—	—	—
Columbus Southern Power Co	Investor-Owned	2,271	1,645	1,489	2,144
Consumers Energy Co	Investor-Owned	8,989	5,909	0	0
Crawfordsville Elec Lgt&Pwr Co	Publicly Owned	3	5	5	3
Dayton Power & Light Co	Investor-Owned	11,662	5,685	7,420	7,420
Detroit Edison Co	Investor-Owned	7,700	7,700	4,905	3,810
East Kentucky Power Coop Inc	Cooperative	2,000	2,050	2,050	0
Hagerstown City of	Publicly Owned	26	19	18	0
Hamilton City of	Publicly Owned	16	15	15	25
Harrison County Rural E C C	Cooperative	—	36	39	39
Indiana Michigan Power Co	Investor-Owned	1,772	440	280	369
Indiana Municipal Power Agency	Publicly Owned	388	577	699	120
Indianapolis Power & Light Co	Investor-Owned	6,388	5,342	8,742	0
Kentucky Power Co	Investor-Owned	43	817	1,534	1,250
Kentucky Utilities Co	Investor-Owned	5,105	3,134	3,277	3,528
Lansing City of	Publicly Owned	17	71	187	190
Louisville Gas & Electric Co	Investor-Owned	1,250	1,400	2,577	5,900
Midwest Electric Inc	Cooperative	80	—	—	—
Monongahela Power Co	Investor-Owned	432	0	0	0
Ohio Edison Co	Investor-Owned	6,638	4,236	2,506	1,678
Ohio Power Co	Investor-Owned	3,502	2,436	1,571	2,643
Owen Electric Coop Inc	Cooperative	106	52	74	91
Owensboro City of	Publicly Owned	—	25	52	30
Pennsylvania Power Co	Investor-Owned	144	182	218	327
Potomac Edison Co	Investor-Owned	5,999	309	2,007	2,007
PSI Energy Inc	Investor-Owned	34,370	13,356	23,588	25,447
South Central Power Co	Cooperative	803	845	865	980
Southern Indiana Gas & Elec Co	Investor-Owned	10,193	6,081	2,594	1,941
Toledo Edison Co	Investor-Owned	2,430	—	—	—
Union Light Heat & Power Co	Investor-Owned	—	652	1,173	1,378
Wabash Valley Power Assn Inc	Cooperative	8,660	400	400	400
West Penn Power Co	Investor-Owned	2,156	0	0	0
Wolverine Pwr Supply Coop Inc	Cooperative	325	152	353	135
ECAR Total		**138,910**	**77,031**	**77,395**	**73,496**
ERCOT					
Austin City of	Publicly Owned	13,282	12,984	14,196	11,196
Brazos Electric Power Coop Inc	Cooperative	1,415	1,243	1,275	1,275
Bryan City of	Publicly Owned	498	348	435	760
Central Power & Light Co	Investor-Owned	7,549	6,766	9,000	0
College Station City of	Publicly Owned	95	108	119	115
Denton City of	Publicly Owned	71	—	—	—
East Texas Electric Coop Inc	Cooperative	—	80	0	0
Garland City of	Publicly Owned	614	—	—	—
Georgetown City of	Publicly Owned	38	38	38	125
Greenville Electric Util Sys	Publicly Owned	56	35	65	144
Guadalupe Valley Elec Coop Inc	Cooperative	243	90	124	92
Houston Lighting & Power Co	Investor-Owned	21,215	14,585	16,346	0
Lower Colorado River Authority	Publicly Owned	6,060	6,232	6,232	6,232
Magic Valley Electric Coop Inc	Cooperative	488	513	517	592
Medina Electric Coop Inc	Cooperative	57	47	49	53
San Antonio Public Service Bd	Publicly Owned	472	—	—	—
San Bernard Electric Coop Inc	Cooperative	65	65	65	65
San Marcos City of	Publicly Owned	22	22	24	27
Texas Utilities Electric Co	Investor-Owned	14,307	9,654	15,309	15,309
Texas-New Mexico Power Co	Investor-Owned	1,194	—	—	—
West Texas Utilities Co	Investor-Owned	2,680	1,310	1,337	0
ERCOT Total		**70,421**	**54,120**	**65,131**	**35,985**
MAAC					
A & N Electric Coop	Cooperative	149	143	145	152
Adams Electric Coop Inc	Cooperative	605	—	—	—
Allegheny Electric Coop Inc	Cooperative	706	3,789	3,831	4,125
Atlantic City Electric Co	Investor-Owned	3,536	—	—	—
Baltimore Gas & Electric Co	Investor-Owned	53,179	51,952	53,404	39,000

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, 1995, 1996, 1997, and 2001

(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1995	1996	1997	2001
MAAC (Continued)					
Central Electric Coop Inc	Cooperative	219	—	—	—
Choptank Electric Coop Inc	Cooperative	265	278	325	456
Claverack Rural Elec Coop Inc	Cooperative	89	—	—	—
Delaware Electric Coop Inc	Cooperative	772	515	525	568
Delmarva Power & Light Co	Investor-Owned	8,906	9,535	9,820	9,820
Easton Utilities Comm	Publicly Owned	70	—	—	—
Jersey Central Power&Light Co	Investor-Owned	30,893	13,141	27,120	19,500
Metropolitan Edison Co	Investor-Owned	4,320	4,358	4,358	4,358
Northwestern Rural E C A Inc	Cooperative	356	—	—	—
Pennsylvania Electric Co	Investor-Owned	4,209	3,227	3,227	0
Pennsylvania Power & Light Co	Investor-Owned	11,434	9,335	9,571	9,571
Potomac Electric Power Co	Investor-Owned	118,955	63,458	72,708	70,290
Public Service Electric&Gas Co	Investor-Owned	46,489	58,152	83,157	124,351
PECO Energy Co	Investor-Owned	8,771	—	—	—
Somerset Rural Elec Coop Inc	Cooperative	142	—	—	—
Southern Maryland El Coop Inc	Cooperative	5,785	7,267	7,293	8,497
Southwest Central R E C Corp	Cooperative	66	—	—	—
Tri-County Rural Elec Coop Inc	Cooperative	61	—	—	—
United Electric Coop Inc	Cooperative	144	—	—	—
UGI Utilities Inc	Investor-Owned	110	103	110	110
Valley Rural Electric Coop Inc	Cooperative	116	—	—	—
MAAC Total		**300,347**	**225,253**	**275,594**	**290,798**
MAIN					
Boone Electric Coop	Cooperative	94	96	101	109
Central Illinois Light Co	Investor-Owned	2,065	2,987	2,974	1,620
Central Illinois Pub Serv Co	Investor-Owned	566	—	—	—
Coles-Moultrie Electric Coop	Cooperative	150	130	130	130
Columbia City of	Publicly Owned	665	834	1,115	1,436
Commonwealth Edison Co	Investor-Owned	4,900	8,500	9,000	10,800
Corn Belt Electric Coop Inc	Cooperative	210	177	159	110
Cuivre River Electric Coop Inc	Cooperative	38	45	146	56
Eastern Illini Electric Coop	Cooperative	92	92	94	100
Farmington City of	Publicly Owned	101	—	—	—
Illinois Power Co	Investor-Owned	19	1	2	2
Madison Gas & Electric Co	Investor-Owned	4,764	4,356	5,398	5,398
Manitowoc Public Utilities	Publicly Owned	230	97	165	100
Marshfield City of	Publicly Owned	130	134	222	217
Menard Electric Coop	Cooperative	80	122	122	127
Shelby Electric Coop Inc	Cooperative	35	23	33	54
Southeastern IL Elec Coop Inc	Cooperative	2	4	5	5
Southwestern Electric Coop Inc	Cooperative	150	156	0	0
Springfield City of	Publicly Owned	525	487	540	687
Tri-County Electric Coop Inc	Cooperative	115	14	14	14
Union Electric Co	Investor-Owned	11,718	12,762	12,846	14,680
Wayne-White Counties Elec Coop	Cooperative	26	33	69	85
Wisconsin Electric Power Co	Investor-Owned	21,913	19,160	18,630	18,630
Wisconsin Power & Light Co	Investor-Owned	13,939	8,347	10,862	10,862
Wisconsin Public Power Inc Sys	Publicly Owned	811	493	550	500
Wisconsin Public Service Corp	Investor-Owned	14,760	11,300	6,800	6,800
MAIN Total		**78,098**	**70,350**	**69,977**	**72,522**
MAPP(U.S.)					
Ames City of	Publicly Owned	250	251	252	77
Anoka City of	Publicly Owned	71	143	143	154
Austin City of	Publicly Owned	238	170	160	168
Barron Electric Coop	Cooperative	46	396	332	272
Capital Electric Coop Inc	Cooperative	44	46	48	56
Cass County Electric Coop Inc	Cooperative	130	136	138	157
Cedar Falls City of	Publicly Owned	300	300	300	300
Central Iowa Power Coop	Cooperative	1,431	1,574	1,725	1,884
Central Power Elec Coop Inc	Cooperative	90	100	100	100
Chaska City of	Publicly Owned	77	105	110	134
Clark Electric Coop	Cooperative	22	115	116	116
Coop Power Assn	Cooperative	8,468	9,096	11,222	13,025
Cornhusker Public Power Dist	Publicly Owned	57	—	—	—
Custer Public Power District	Publicly Owned	15	—	—	—
Dawson County Public Pwr Dist	Publicly Owned	30	22	23	25

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, 1995, 1996, 1997, and 2001

(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1995	1996	1997	2001
MAPP(U.S.) (Continued)					
Denison City of	Publicly Owned	25	45	50	50
East Grand Forks City of	Publicly Owned	224	196	646	0
East River Elec Power Coop Inc	Cooperative	2,425	2,371	2,295	2,272
Eau Claire Electric Coop	Cooperative	99	544	548	633
Elkhorn Rural Public Pwr Dist	Publicly Owned	31	—	—	—
Fairmont Public Utilities Comm	Publicly Owned	146	105	121	103
Freeborn-Mower Electric Coop	Cooperative	—	56	59	62
Grand Rapids Public Util Comm	Publicly Owned	—	37	36	42
Grant-Lafayette Electric Coop	Cooperative	100	107	112	136
Interstate Power Co	Investor-Owned	6,017	6,331	7,734	7,653
Iowa Lakes Electric Coop	Cooperative	587	595	608	669
IES Utilities Inc	Investor-Owned	16,119	13,970	11,105	13,450
L & O Power Coop	Cooperative	20	20	20	20
Lexington City of	Publicly Owned	1	5	5	2
Lincoln Electric System	Publicly Owned	106	57	67	102
Loup River Public Power Dist	Publicly Owned	6	26	100	500
Marshall City of	Publicly Owned	116	112	118	127
Midland Power Coop	Cooperative	112	88	91	98
MidAmerican Energy Co	Investor-Owned	26,307	15,896	15,484	16,005
Minnesota Municipal Power Agny	Publicly Owned	—	229	286	310
Minnesota Power & Light Co	Investor-Owned	14,260	15,597	4,147	3,500
Minnesota Valley Electric Coop	Cooperative	665	—	—	—
Minnkota Power Coop Inc	Cooperative	2,139	1,341	1,345	1,365
Moorhead City of	Publicly Owned	300	528	530	560
Mountrail-Williams Elec Coop	Cooperative	81	85	89	93
Municipal Energy Agency of NE	Publicly Owned	28	75	80	100
Muscatine City of	Publicly Owned	205	180	195	200
MDU Resources Group Inc	Investor-Owned	623	801	801	1,150
Nebraska Public Power District	Publicly Owned	3,647	3,856	4,290	5,443
Nodak Electric Coop Inc	Cooperative	72	78	88	99
Norris Public Power District	Publicly Owned	274	—	—	—
North Platte City of	Publicly Owned	77	—	—	—
Northern States Power Co of MN	Investor-Owned	53,000	58,747	38,025	32,300
Northern States Power Co of WI	Investor-Owned	5,272	4,395	5,223	4,699
Northwest Iowa Power Coop	Cooperative	550	902	912	953
Northwestern Public Service Co	Investor-Owned	2	2	2	2
Northwestern Wisconsin Elec Co	Investor-Owned	72	67	69	69
Oakdale Electric Coop	Cooperative	160	637	606	673
Omaha Public Power District	Publicly Owned	391	360	360	350
Otter Tail Power Co	Investor-Owned	6,141	6,737	6,717	6,643
Owatonna City of	Publicly Owned	109	321	351	268
Pella City of	Publicly Owned	68	—	—	—
People 's Coop Power Assn	Cooperative	73	90	85	95
Pierre City of	Publicly Owned	11	11	11	11
Polk-Burnett Electric Coop	Cooperative	320	320	280	150
R S R Electric Coop Inc	Cooperative	—	32	33	36
Red River Valley Coop Pwr Assn	Cooperative	—	43	44	48
Rice Lake Utilities	Publicly Owned	74	62	100	100
Rochester Public Utilities	Publicly Owned	497	691	677	729
Roseau Electric Coop Inc	Cooperative	57	60	63	70
Shakopee Public Utilities Comm	Publicly Owned	45	45	103	105
Spencer City of	Publicly Owned	46	56	78	129
Superior Water Light&Power Co	Investor-Owned	258	331	252	252
Thief River Falls City of	Publicly Owned	—	181	180	195
Trempealeau Electric Coop	Cooperative	—	614	591	660
Tri-County Electric Coop	Cooperative	364	365	361	406
United Power Assn	Cooperative	5,082	5,276	5,840	4,686
Verendrye Electric Coop Inc	Cooperative	95	113	123	133
Vernon Electric Coop	Cooperative	138	378	393	412
York County Rural Pub Pwr Dist	Publicly Owned	65	67	75	80
MAPP(U.S.) Total		**158,971**	**156,688**	**127,273**	**125,466**
NPCC(U.S.)					
Arcade Village of	Publicly Owned	25	5	5	5
Bangor Hydro-Electric Co	Investor-Owned	609	164	828	828
Blackstone Valley Electric Co	Investor-Owned	0	1,580	2,455	2,455
Boston Edison Co	Investor-Owned	32,595	15,916	21,318	21,318
Braintree Town of	Publicly Owned	188	203	211	221

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, 1995, 1996, 1997, and 2001

(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1995	1996	1997	2001
NPCC(U.S.) (Continued)					
Burlington City of	Publicly Owned	437	464	463	463
Cambridge Electric Light Co	Investor-Owned	515	587	1,592	1,592
Central Hudson Gas & Elec Corp	Investor-Owned	4,070	1,714	1,063	0
Central Maine Power Co	Investor-Owned	12,758	16,685	12,500	12,500
Central Vermont Pub Serv Corp	Investor-Owned	4,676	3,338	4,023	0
Chicopee City of	Publicly Owned	523	164	36	36
Citizens Utilities Co	Investor-Owned	4,038	1,818	1,888	1,224
Commonwealth Electric Co	Investor-Owned	2,040	2,632	4,578	4,578
Concord Electric Co	Investor-Owned	554	341	421	0
Connecticut Light & Power Co	Investor-Owned	37,080	31,297	35,978	26,889
Connecticut Valley Elec Co Inc	Investor-Owned	144	132	153	0
Consolidated Edison Co-NY Inc	Investor-Owned	52,253	49,190	48,400	6,000
Eastern Edison Co	Investor-Owned	0	2,902	5,245	5,245
Exeter & Hampton Electric Co	Investor-Owned	815	404	450	0
Fitchburg Gas & Elec Light Co	Investor-Owned	1,163	354	536	0
Granite State Electric Co	Investor-Owned	1,894	1,924	2,066	2,109
Green Mountain Power Corp	Investor-Owned	3,160	2,448	2,633	2,633
Hingham City of	Publicly Owned	114	44	44	50
Holyoke City of	Publicly Owned	34	334	399	331
Jamestown City of	Publicly Owned	176	325	175	250
Littleton Town of	Publicly Owned	9	17	15	18
Long Island Lighting Co	Investor-Owned	13,583	9,586	10,894	13,228
Maine Public Service Co	Investor-Owned	95	75	87	41
Massachusetts Electric Co	Investor-Owned	55,259	49,272	54,173	60,100
Massena Town of	Publicly Owned	3	3	103	28
Montaup Electric Co	Investor-Owned	10,340	—	—	—
Narragansett Electric Co	Investor-Owned	9,866	10,434	12,584	12,793
New England Power Co	Investor-Owned	7,095	6,205	6,135	0
New Hampshire Elec Coop Inc	Cooperative	927	1,615	1,421	712
New York State Elec & Gas Corp	Investor-Owned	12,411	4,566	4,028	7,274
Newport Electric Corp	Investor-Owned	—	697	986	986
Niagara Mohawk Power Corp	Investor-Owned	20,423	757	4,632	4,000
North Attleborough Town of	Publicly Owned	143	—	—	—
Norwood City of	Publicly Owned	337	135	276	0
Omya Inc	Investor-Owned	1	1	10	4
Orange & Rockland Utils Inc	Investor-Owned	11,139	6,293	6,601	6,601
Power Authority of State of NY	Publicly Owned	9,372	10,251	9,312	2,214
Public Service Co of NH	Investor-Owned	3,333	2,728	900	0
Reading Town of	Publicly Owned	155	155	163	198
Rochester Gas & Electric Corp	Investor-Owned	10,631	5,944	6,515	6,515
Shrewsbury Town of	Publicly Owned	290	110	45	45
Taunton City of	Publicly Owned	484	304	313	181
United Illuminating Co	Investor-Owned	9,443	6,368	3,050	2,058
Vermont Electric Coop Inc	Cooperative	—	369	648	648
Wellesley Town of	Publicly Owned	18	18	18	18
Western Massachusetts Elec Co	Investor-Owned	11,498	12,292	12,549	9,365
NPCC(U.S.) Total		**346,716**	**263,160**	**282,918**	**215,754**
SERC					
Aiken Electric Coop Inc	Cooperative	263	818	625	990
Alabama Electric Coop Inc	Cooperative	1,042	1,269	1,323	0
Alabama Municipal Elec Auth	Publicly Owned	110	110	145	135
Alabama Power Co	Investor-Owned	45,166	51,546	57,711	70,666
Albemarle City of	Publicly Owned	40	36	46	70
Altamaha Electric Member Corp	Cooperative	13	0	0	0
Amicalola Electric Member Corp	Cooperative	78	30	32	36
Berkeley Electric Coop Inc	Cooperative	762	795	802	600
Black River Electric Coop Inc	Cooperative	310	215	222	295
Brunswick Electric Member Corp	Cooperative	687	671	566	322
BARC Electric Coop Inc	Cooperative	98	98	98	89
Camden City of	Publicly Owned	—	59	21	72
Carolina Power & Light Co	Investor-Owned	56,600	51,500	50,800	50,800
Carroll Electric Member Corp	Cooperative	73	15	3	3
Central Georgia El Member Corp	Cooperative	118	108	170	186
Central Virginia Electric Coop	Cooperative	61	76	175	156
Choctawhatche Elec Coop Inc	Cooperative	190	189	180	180
Clay Electric Coop Inc	Cooperative	2,930	2,947	3,417	4,179
Coastal Electric Member Corp	Cooperative	163	—	—	—

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, 1995, 1996, 1997, and 2001

(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1995	1996	1997	2001
SERC (Continued)					
Cobb Electric Membership Corp	Cooperative	2,393	1,260	1,323	1,512
Colquitt Electric Members Corp	Cooperative	160	201	206	211
Community Electric Coop	Cooperative	156	177	181	196
Coweta-Fayette El Member Corp	Cooperative	803	1,245	1,233	1,260
Crescent Electric Member Corp	Cooperative	1,681	—	—	—
Crisp County Power Comm	Publicly Owned	2	2	2	2
Douglas City of	Publicly Owned	16	15	15	16
Duke Power Co	Investor-Owned	92,531	44,015	44,627	43,873
Easley Combined Utility System	Publicly Owned	35	35	40	45
East Point City of	Publicly Owned	28	26	32	42
Elizabeth City City of	Publicly Owned	0	378	397	406
Excelsior Electric Member Corp	Cooperative	17	15	11	11
Fairfield Electric Coop Inc	Cooperative	815	425	438	330
Fayetteville Public Works Comm	Publicly Owned	25	0	16	45
Fitzgerald Wtr Lgt & Bond Comm	Publicly Owned	18	18	18	21
Flint Electric Membership Corp	Cooperative	1,885	490	545	583
Florida Keys El Coop Assn Inc	Cooperative	164	184	194	209
Florida Power & Light Co	Investor-Owned	169,853	180,373	175,200	196,300
Florida Power Corp	Investor-Owned	85,590	75,685	79,933	80,645
Fort Pierce Utilities Auth	Publicly Owned	175	200	200	200
Gainesville Regional Utilities	Publicly Owned	657	690	710	799
Georgia Power Co	Investor-Owned	42,684	24,496	25,160	26,136
Grady County Elec Member Corp	Cooperative	43	147	150	160
Greenville Utilities Comm	Publicly Owned	721	4,385	767	604
Greer Comm of Public Works	Publicly Owned	0	15	16	20
GreyStone Power Corp	Cooperative	371	1,408	2,233	322
Gulf Power Co	Investor-Owned	3,242	2,872	3,760	4,165
Harrisonburg City of	Publicly Owned	31	22	25	25
Hart Electric Member Corp	Cooperative	205	205	220	235
Haywood Electric Member Corp	Cooperative	78	78	0	0
High Point Town of	Publicly Owned	225	225	250	300
Jackson Electric Member Corp	Cooperative	338	204	208	212
Jacksonville Electric Auth	Publicly Owned	879	599	1,025	1,374
Jefferson Electric Member Corp	Cooperative	54	54	61	73
Jones-Onslow Elec Member Corp	Cooperative	—	285	360	530
Kinston City of	Publicly Owned	4,460	1,677	811	30
Kissimmee Utility Authority	Publicly Owned	1,355	2,027	2,778	5,532
Lakeland City of	Publicly Owned	448	357	671	738
Lamar Electric Membership Corp	Cooperative	3	3	3	4
Laurens Electric Coop Inc	Cooperative	40	43	44	48
Laurinburg City of	Publicly Owned	208	46	63	82
Lawrenceville City of	Publicly Owned	2	2	2	2
Lee County Electric Coop Inc	Cooperative	1,204	836	757	827
Leesburg City of	Publicly Owned	56	45	50	59
Lumberton City of	Publicly Owned	26	25	26	28
Lynches River Elec Coop Inc	Cooperative	0	241	241	241
Manassas City of	Publicly Owned	14	14	17	18
Mecklenburg Electric Coop Inc	Cooperative	133	223	230	258
Mid-Carolina Electric Coop Inc	Cooperative	1,196	1,217	1,241	1,337
Mississippi Power Co	Investor-Owned	18	10	15	26
Mitchell Electric Member Corp	Cooperative	28	28	28	33
New Bern City of	Publicly Owned	305	2,405	775	275
New River Light & Power Co	Publicly Owned	27	26	26	28
New Smyrna Beach Utils Comm	Publicly Owned	198	0	0	0
Newnan Wtr Sewer & Light Comm	Publicly Owned	40	40	100	103
North Carolina Eastern M P A	Publicly Owned	1,846	1,955	2,190	2,350
North Carolina El Member Corp	Cooperative	13,383	15,000	15,000	15,000
North Carolina Mun Power Agny	Publicly Owned	1,325	1,356	1,392	1,459
Northern Neck Elec Coop Inc	Cooperative	65	43	44	49
Northern Virginia Elec Coop	Cooperative	2,383	2,298	2,394	2,516
Ocala City of	Publicly Owned	277	—	—	—
Ocmulgee Electric Member Corp	Cooperative	—	2	96	102
Orangeburg City of	Publicly Owned	10	35	35	365
Orlando Utilities Comm	Publicly Owned	1,259	1,578	2,284	2,561
Palmetto Electric Coop Inc	Cooperative	1,685	1,792	1,726	1,632
Pee Dee Electric Coop Inc	Cooperative	77	45	47	49
Piedmont Municipal Power Agny	Publicly Owned	862	386	318	215
Planters Electric Member Corp	Cooperative	20	0	0	0

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, 1995, 1996, 1997, and 2001

(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1995	1996	1997	2001
SERC (Continued)					
Prince George Electric Coop	Cooperative	21	26	26	26
Rappahannock Electric Coop	Cooperative	675	651	660	750
Rayle Electric Membership Corp	Cooperative	26	27	56	70
Reedy Creek Improvement Dist	Publicly Owned	143	145	202	227
Rock Hill City of	Publicly Owned	58	28	45	45
Rocky Mount City of	Publicly Owned	125	125	7,125	1,125
Satilla Rural Elec Member Corp	Cooperative	32	32	32	41
Savannah Electric & Power Co	Investor-Owned	2,096	0	0	0
Sawnee Electric Members Corp	Cooperative	583	622	632	644
Shenandoah Valley Elec Coop	Cooperative	141	112	122	144
Singing River Elec Power Assn	Cooperative	83	69	71	77
Smithfield Town of	Publicly Owned	2	92	103	121
South Carolina Electric&Gas Co	Investor-Owned	9,445	1,836	1,589	1,589
South Carolina Pub Serv Auth	Publicly Owned	8,802	9,106	10,712	14,532
South Mississippi El Pwr Assn	Cooperative	98	110	110	125
Southside Electric Coop Inc	Cooperative	43	46	50	54
Sumter Electric Coop Inc	Cooperative	186	167	176	206
Suwannee Valley Elec Coop Inc	Cooperative	57	22	23	26
Tallahassee City of	Publicly Owned	1,120	860	889	980
Tampa Electric Co	Investor-Owned	17,021	18,897	18,645	19,297
Tennessee Valley Authority	Federal	56,953	5,945	6,329	7,773
Thomasville City of	Publicly Owned	50	2	2	2
Tideland Electric Member Corp	Cooperative	—	150	153	162
Tri-County Elec Member Corp	Cooperative	36	32	0	0
Tri-County Elec Member Corp	Cooperative	215	222	240	240
Virginia Electric & Power Co	Investor-Owned	31,628	24,219	20,879	6,775
Walton Electric Member Corp	Cooperative	80	—	—	—
Washington City of	Publicly Owned	650	62	380	95
Wilson City of	Publicly Owned	3,148	2,660	2,090	1,110
Withlacoochee River Elec Coop	Cooperative	74	72	632	857
York Electric Coop Inc	Cooperative	38	35	38	63
SERC Total		**681,161**	**551,038**	**561,307**	**582,764**
SPP					
Alfalfa Electric Coop Inc	Cooperative	42	27	30	50
Altus City of	Publicly Owned	1	5	8	1
Bailey County Elec Coop Assn	Cooperative	75	—	—	—
C & L Electric Coop Corp	Cooperative	4	1	4	7
Caddo Electric Coop Inc	Cooperative	450	450	450	450
Cajun Electric Power Coop Inc	Cooperative	—	1,547	722	722
Carroll Electric Coop Corp	Cooperative	43	36	37	47
Central Rural Electric Coop	Cooperative	56	63	65	73
Cookson Hills Elec Coop Inc	Cooperative	443	521	500	536
Craighead Electric Coop Corp	Cooperative	382	283	291	332
Dixie Electric Membership Corp	Cooperative	98	98	101	300
Duncan City of	Publicly Owned	76	75	77	85
Empire District Electric Co	Investor-Owned	842	912	561	917
Farmers ' Electric Coop Inc	Cooperative	0	2	2	3
First Electric Coop Corp	Cooperative	125	85	82	70
Golden Spread Elec Coop Inc	Cooperative	60	60	60	60
Grundy Electric Coop Inc	Cooperative	—	711	432	215
Independence City of	Publicly Owned	139	139	140	143
Indian Electric Coop Inc	Cooperative	47	44	48	52
Kansas City City of	Publicly Owned	226	410	341	384
Kansas City Power & Light Co	Investor-Owned	1,354	1,430	1,360	0
Kansas Electric Power Coop Inc	Cooperative	31	103	109	118
Kansas Gas & Electric Co	Investor-Owned	678	760	608	152
Lamb County Electric Coop Inc	Cooperative	—	35	25	25
Mississippi Cnty Elec Coop Inc	Cooperative	34	42	50	50
North Arkansas Elec Coop Inc	Cooperative	160	163	150	140
Northeast Louisiana Power Coop	Cooperative	60	50	60	83
Oklahoma Gas & Electric Co	Investor-Owned	13,420	11,844	7,332	7,270
Oklahoma Municipal Power Auth	Publicly Owned	117	73	97	82
Osceola City of	Publicly Owned	300	552	600	600
Ozark Electric Coop Inc	Cooperative	3	3	3	6
Petit Jean Electric Coop Corp	Cooperative	208	75	49	44
Red River Valley Rrl Elec Assn	Cooperative	103	58	61	67
South Central Ark El Coop Inc	Cooperative	3	5	5	5

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, 1995, 1996, 1997, and 2001

(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1995	1996	1997	2001
SPP (Continued)					
South Plains Electric Coop Inc	Cooperative	534	475	525	550
Southwestern Electric Power Co	Investor-Owned	1,587	1,479	1,425	0
Southwestern Public Service Co	Investor-Owned	2,182	3,201	1,637	1,679
UtiliCorp United Inc	Investor-Owned	0	0	570	570
Verdigris Valley Elec Coop Inc	Cooperative	122	123	128	139
Western Resources Inc	Investor-Owned	2,323	2,352	2,208	1,776
White River Valley El Coop Inc	Cooperative	7	7	8	8
Woodruff Electric Coop Corp	Cooperative	94	84	76	86
SPP Total		**26,429**	**28,383**	**21,037**	**17,897**
WSCC(U.S.)					
Alameda City of	Publicly Owned	200	284	180	250
Anaheim City of	Publicly Owned	2,048	1,752	1,116	3,600
Arizona Electric Pwr Coop Inc	Cooperative	264	166	205	0
Arizona Public Service Co	Investor-Owned	5,973	5,973	5,609	3,600
Black Hills Corp	Investor-Owned	454	—	—	—
Bonneville Power Admin	Federal	134,067	95,635	75,000	0
Boulder City City of	Publicly Owned	—	187	189	193
Bountiful City City of	Publicly Owned	0	13	23	34
Canby Utility Board	Publicly Owned	—	19	19	19
Colorado Springs City of	Publicly Owned	550	600	483	456
Columbia River Peoples Ut Dist	Publicly Owned	144	173	176	250
Dixie Escalante R E A Inc	Cooperative	—	7	15	15
El Paso Electric Co	Investor-Owned	1,324	840	1,500	0
Ellensburg City of	Publicly Owned	495	514	443	200
Emerald People 's Utility Dist	Publicly Owned	—	1,095	1,250	1,250
Eugene City of	Publicly Owned	6,340	8,240	7,560	7,300
Forest Grove City of	Publicly Owned	—	303	515	250
Fort Collins City of	Publicly Owned	389	131	132	136
Idaho Power Co	Investor-Owned	5,885	4,350	3,500	3,500
Imperial Irrigation District	Publicly Owned	245	230	238	251
La Plata Electric Assn Inc	Cooperative	27	7	7	250
Longmont City of	Publicly Owned	106	106	262	292
Los Angeles City of	Publicly Owned	4,336	1,090	327	327
Loveland City of	Publicly Owned	162	141	136	160
Modesto Irrigation District	Publicly Owned	1,100	1,151	1,217	0
Mohave Electric Coop Inc	Cooperative	18	21	28	45
Montana Power Co	Investor-Owned	10,686	4,352	4,524	5,695
Mountain Parks Electric Inc	Cooperative	28	22	24	30
Mountain View Elec Assn Inc	Cooperative	—	970	70	0
Navopache Electric Coop Inc	Cooperative	154	200	316	357
Nevada Power Co	Investor-Owned	2,529	919	400	400
Oregon Trail El Cons Coop Inc	Cooperative	—	78	111	120
Overton Power District No 5	Publicly Owned	18	—	—	—
Pacific Gas & Electric Co	Investor-Owned	131,000	90,481	102,447	102,447
PacifiCorp	Investor-Owned	59,530	16,513	17,600	22,760
Palo Alto City of	Publicly Owned	250	250	400	400
Pasadena City of	Publicly Owned	500	500	500	500
Portland General Electric Co	Investor-Owned	25,414	13,320	14,608	14,608
Poudre Valley R E A Inc	Cooperative	—	0	39	74
Public Service Co of Colorado	Investor-Owned	12,478	15,201	7,520	2,920
Puget Sound Power & Light Co	Investor-Owned	13,693	5,309	9,449	9,449
PUD No 1 of Benton County	Publicly Owned	215	77	273	273
PUD No 1 of Clark County	Publicly Owned	4,166	2,605	1,835	1,835
PUD No 1 of Pend Oreille Cnty	Publicly Owned	723	217	200	200
PUD No 2 of Grant County	Publicly Owned	3,141	2,027	7,690	800
Redding City of	Publicly Owned	142	148	161	279
Riverside City of	Publicly Owned	751	—	—	—
Roseville City of	Publicly Owned	748	460	531	426
Sacramento Municipal Util Dist	Publicly Owned	45,767	26,779	32,571	24,489
Salem Electric Coop	Cooperative	229	157	658	567
Salt River Proj Ag I & P Dist	Publicly Owned	7,931	8,109	5,898	5,898
San Diego Gas & Electric Co	Investor-Owned	46,696	52,559	38,601	38,601
San Miguel Power Assn Inc	Cooperative	—	50	50	130
Santa Clara City of	Publicly Owned	475	277	377	1,260
Seattle City of	Publicly Owned	18,914	19,165	22,604	27,768
Sierra Pacific Power Co	Investor-Owned	1,016	—	—	—
Southern California Edison Co	Investor-Owned	50,370	74,691	94,454	94,454

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, 1995, 1996, 1997, and 2001

(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1995	1996	1997	2001
WSCC(U.S.) (Continued)					
Springfield City of	Publicly Owned	2,456	2,190	2,665	1,221
Sulphur Springs Valley E C Inc	Cooperative	5	5	15	15
Tacoma City of	Publicly Owned	7,895	4,153	7,791	4,245
Trico Electric Coop Inc	Cooperative	3	3	3	0
Tucson Electric Power Co	Investor-Owned	3,361	2,645	2,645	2,645
Turlock Irrigation District	Publicly Owned	245	245	152	252
United Power Inc	Cooperative	93	227	470	230
Utah Municipal Power Agency	Publicly Owned	24	58	54	59
Vera Irrigation District # 15	Publicly Owned	40	—	—	—
Vernon City of	Publicly Owned	65	94	100	1,157
Washington Water Power Co	Investor-Owned	3,503	3,503	4,666	4,666
Yellowstone Valley Elec Co-op	Cooperative	194	172	132	150
WSCC(U.S.) Total		**619,575**	**471,759**	**482,734**	**393,758**
Contiguous U.S.		**2,420,628**	**1,897,782**	**1,963,366**	**1,808,440**
ASCC					
Alaska Electric Light&Power Co	Investor-Owned	121	63	63	78
Golden Valley Elec Assn Inc	Cooperative	512	228	277	291
ASCC Total		**633**	**291**	**340**	**369**
Hawaii					
Hawaii Electric Light Co Inc	Investor-Owned	0	1,409	2,254	2,041
Hawaiian Electric Co Inc	Investor-Owned	0	2,404	7,792	0
Maui Electric Co Ltd	Investor-Owned	0	311	2,638	3,997
Hawaii Total		**0**	**4,124**	**12,684**	**6,038**
U.S. Total		**2,421,261**	**1,902,197**	**1,976,390**	**1,814,847**

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 23. U.S. Electric Utility DSM Program Direct Utility Costs by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1996

(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 Costs [1]
ECAR						
Appalachian Power Co	1,219	0	0	0	0	1,219
Buckeye Power Inc	0	1,000	0	0	0	1,000
Cincinnati Gas & Electric Co	9,485	1,382	5	0	0	10,872
Columbus Southern Power Co	1,529	0	66	50	0	1,645
Consumers Energy Co	5,032	1	0	388	0	5,421
Crawfordsville Elec Lgt&Pwr Co	3	1	0	0	0	4
Dayton Power & Light Co	5,685	0	0	0	0	5,685
Detroit Edison Co	6,896	10	0	0	0	6,906
East Kentucky Power Coop Inc	1,000	0	0	400	0	1,400
Hagerstown City of	9	0	0	0	0	9
Hamilton City of	0	0	0	4	11	15
Harrison County Rural E C C	12	0	0	18	0	30
Indiana Michigan Power Co	440	0	0	0	0	440
Indiana Municipal Power Agency	0	577	0	0	0	577
Indianapolis Power & Light Co	5,342	0	0	0	0	5,342
Kentucky Power Co	817	0	0	0	0	817
Kentucky Utilities Co	174	0	1,133	0	0	1,307
Lansing City of	54	0	0	0	0	54
Louisville Gas & Electric Co	1,400	0	0	0	0	1,400
Ohio Edison Co	3,875	0	0	0	0	3,875
Ohio Power Co	1,425	0	0	1,011	0	2,436
Owen Electric Coop Inc	9	0	0	0	0	9
Pennsylvania Power Co	182	0	0	0	0	182
Potomac Edison Co	309	0	0	0	0	309
PSI Energy Inc	12,258	56	0	0	0	12,314
South Central Power Co	140	510	0	0	160	810
Southern Indiana Gas & Elec Co	2,803	1,964	0	0	0	4,767
Union Light Heat & Power Co	400	252	0	0	0	652
Wabash Valley Power Assn Inc	0	240	0	0	0	240
Wolverine Pwr Supply Coop Inc	0	152	0	0	0	152
ECAR Total	**60,498**	**6,145**	**1,204**	**1,871**	**171**	**69,889**
ERCOT						
Austin City of	10,256	0	0	0	0	10,256
Brazos Electric Power Coop Inc	1,167	0	0	0	0	1,167
Bryan City of	293	55	0	0	0	348
Central Power & Light Co	6,766	0	0	0	0	6,766
College Station City of	50	0	0	0	0	50
Georgetown City of	20	1	0	2	0	23
Greenville Electric Util Sys	10	0	10	0	0	20
Guadalupe Valley Elec Coop Inc	0	47	0	0	0	47
Houston Lighting & Power Co	2,855	2,035	0	3,922	67	8,879
Lower Colorado River Authority	5,216	0	332	0	0	5,548
Magic Valley Electric Coop Inc	125	350	0	0	0	475
Medina Electric Coop Inc	0	0	0	29	0	29
San Bernard Electric Coop Inc	16	0	45	0	0	61
San Marcos City of	22	0	0	0	0	22
Texas Utilities Electric Co	8,103	0	0	962	0	9,065
West Texas Utilities Co	1,310	0	0	0	0	1,310
ERCOT Total	**36,209**	**2,488**	**387**	**4,915**	**67**	**44,066**
MAAC						
A & N Electric Coop	0	143	0	0	0	143
Allegheny Electric Coop Inc	32	2,657	3	4	220	2,916
Baltimore Gas & Electric Co	28,752	15,201	4,407	961	0	49,321
Choptank Electric Coop Inc	0	278	0	0	0	278
Delaware Electric Coop Inc	0	515	0	0	0	515
Delmarva Power & Light Co	3,921	4,238	0	0	18	8,177
Jersey Central Power&Light Co	4,672	3,331	0	0	0	8,003
Metropolitan Edison Co	896	0	0	12	0	908
Pennsylvania Electric Co	456	0	0	117	0	573
Pennsylvania Power & Light Co	9,335	0	0	0	0	9,335
Potomac Electric Power Co	45,251	11,874	1,356	1,837	0	60,318
Public Service Electric&Gas Co	36,926	7,493	7,329	0	4,729	56,477
Southern Maryland El Coop Inc	3,555	3,496	7	0	0	7,058

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, 1996

(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 Costs [1]
MAAC (Continued)						
UGI Utilities Inc	61	0	0	0	0	61
MAAC Total	**133,857**	**49,226**	**13,102**	**2,931**	**4,967**	**204,083**
MAIN						
Boone Electric Coop	5	85	1	0	0	91
Central Illinois Light Co	104	0	2,732	0	0	2,836
Coles-Moultrie Electric Coop	0	80	0	0	0	80
Columbia City of	87	357	9	0	0	453
Commonwealth Edison Co	1,500	4,000	0	3,000	0	8,500
Corn Belt Electric Coop Inc	0	0	0	0	160	160
Cuivre River Electric Coop Inc	0	40	0	0	0	40
Eastern Illini Electric Coop	0	50	12	0	0	62
Madison Gas & Electric Co	1,448	295	0	0	0	1,743
Manitowoc Public Utilities	97	0	0	0	0	97
Marshfield City of	22	0	0	0	0	22
Menard Electric Coop	0	99	7	0	0	106
Shelby Electric Coop Inc	0	3	4	6	0	13
Southeastern IL Elec Coop Inc	0	0	0	0	4	4
Southwestern Electric Coop Inc	0	58	0	0	0	58
Springfield City of	292	0	0	0	0	292
Tri-County Electric Coop Inc	0	5	5	0	0	10
Union Electric Co	2,115	198	10,449	0	0	12,762
Wayne-White Counties Elec Coop	0	12	15	0	0	27
Wisconsin Electric Power Co	11,215	775	10	186	0	12,186
Wisconsin Power & Light Co	6,730	92	0	0	9	6,831
Wisconsin Public Power Inc Sys	405	0	0	0	0	405
Wisconsin Public Service Corp	4,000	200	3,500	100	0	7,800
MAIN Total	**28,020**	**6,349**	**16,744**	**3,292**	**173**	**54,578**
MAPP(U.S.)						
Ames City of	10	168	0	0	0	178
Anoka City of	5	19	116	3	0	143
Austin City of	22	54	30	0	0	106
Barron Electric Coop	6	378	0	0	0	384
Capital Electric Coop Inc	0	46	0	0	0	46
Cass County Electric Coop Inc	14	70	0	0	0	84
Cedar Falls City of	300	0	0	0	0	300
Central Iowa Power Coop	900	0	0	0	0	900
Central Power Elec Coop Inc	0	100	0	0	0	100
Chaska City of	105	0	0	0	0	105
Clark Electric Coop	0	115	0	0	0	115
Coop Power Assn	1,165	7,333	0	0	598	9,096
Dawson County Public Pwr Dist	0	0	12	0	0	12
Denison City of	0	45	0	0	0	45
East Grand Forks City of	100	65	0	0	31	196
East River Elec Power Coop Inc	558	1,534	0	0	0	2,092
Eau Claire Electric Coop	65	459	0	0	0	524
Fairmont Public Utilities Comm	0	80	0	0	24	104
Freeborn-Mower Electric Coop	10	44	0	0	0	54
Grand Rapids Public Util Comm	6	29	2	0	0	37
Grant-Lafayette Electric Coop	7	35	0	0	0	42
Interstate Power Co	3,536	1,830	20	0	103	5,489
Iowa Lakes Electric Coop	232	2	0	2	0	236
IES Utilities Inc	8,548	770	0	18	0	9,336
L & O Power Coop	0	20	0	0	0	20
Lexington City of	0	0	5	0	0	5
Lincoln Electric System	49	0	0	8	0	57
Loup River Public Power Dist	0	0	26	0	0	26
Marshall City of	2	94	0	0	0	96
Midland Power Coop	59	1	0	0	0	60
MidAmerican Energy Co	4,592	1,820	6,735	0	71	13,218
Minnesota Municipal Power Agny	0	42	81	0	106	229
Minnesota Power & Light Co	15,597	0	0	0	0	15,597
Minnkota Power Coop Inc	0	1,191	0	0	0	1,191
Moorhead City of	160	270	0	0	0	430

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, 1996

(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 Costs [1]
MAPP(U.S.) (Continued)						
Mountrail-Williams Elec Coop	0	21	0	64	0	85
Municipal Energy Agency of NE	10	5	0	0	30	45
Muscatine City of	180	0	0	0	0	180
Nebraska Public Power District	0	671	0	0	0	671
Nodak Electric Coop Inc	0	24	0	0	0	24
Northern States Power Co of MN	34,471	5,144	1,223	0	0	40,838
Northern States Power Co of WI	1,569	679	39	474	0	2,761
Northwest Iowa Power Coop	115	762	0	0	0	877
Northwestern Public Service Co	0	0	2	0	0	2
Northwestern Wisconsin Elec Co	48	0	0	19	0	67
Oakdale Electric Coop	200	328	0	0	0	528
Omaha Public Power District	10	0	0	0	0	10
Otter Tail Power Co	2,084	200	0	0	0	2,284
Owatonna City of	43	234	8	8	9	302
People 's Coop Power Assn	69	17	0	0	0	86
Pierre City of	8	1	0	0	0	9
Polk-Burnett Electric Coop	0	320	0	0	0	320
R S R Electric Coop Inc	0	10	0	0	0	10
Red River Valley Coop Pwr Assn	0	43	0	0	0	43
Rice Lake Utilities	45	0	0	0	0	45
Rochester Public Utilities	264	377	0	0	0	641
Roseau Electric Coop Inc	0	60	0	0	0	60
Shakopee Public Utilities Comm	11	0	0	32	0	43
Spencer City of	44	0	0	0	0	44
Superior Water Light&Power Co	212	0	0	0	0	212
Thief River Falls City of	36	72	46	0	0	154
Trempealeau Electric Coop	170	424	0	0	0	594
Tri-County Electric Coop	0	316	0	0	0	316
United Power Assn	0	1,762	806	0	2,708	5,276
Verendrye Electric Coop Inc	5	25	25	5	0	60
Vernon Electric Coop	11	354	0	0	0	365
York County Rural Pub Pwr Dist	0	67	0	0	0	67
MAPP(U.S.) Total	**75,653**	**28,530**	**9,176**	**633**	**3,680**	**117,672**
NPCC(U.S.)						
Arcade Village of	5	0	0	0	0	5
Bangor Hydro-Electric Co	88	34	0	0	0	122
Blackstone Valley Electric Co	1,162	0	0	0	0	1,162
Boston Edison Co	13,830	0	51	0	0	13,881
Braintree Town of	65	30	0	0	75	170
Burlington City of	305	0	0	0	0	305
Cambridge Electric Light Co	311	0	23	0	0	334
Central Hudson Gas & Elec Corp	1,550	0	0	50	0	1,600
Central Maine Power Co	15,705	297	0	0	0	16,002
Central Vermont Pub Serv Corp	2,108	0	0	0	0	2,108
Chicopee City of	144	0	0	0	0	144
Citizens Utilities Co	714	0	0	0	0	714
Commonwealth Electric Co	1,748	0	217	0	0	1,965
Concord Electric Co	198	0	0	0	0	198
Connecticut Light & Power Co	27,017	0	0	0	0	27,017
Connecticut Valley Elec Co Inc	88	0	0	0	0	88
Consolidated Edison Co-NY Inc	38,152	0	855	0	3,378	42,385
Eastern Edison Co	1,987	0	0	0	0	1,987
Exeter & Hampton Electric Co	254	0	0	0	0	254
Fitchburg Gas & Elec Light Co	184	0	0	0	0	184
Granite State Electric Co	1,694	0	0	0	0	1,694
Green Mountain Power Corp	1,394	254	0	0	0	1,648
Hingham City of	20	20	0	0	0	40
Holyoke City of	304	0	0	0	0	304
Jamestown City of	18	0	0	4	208	230
Littleton Town of	4	12	0	0	1	17
Long Island Lighting Co	6,975	0	0	0	0	6,975
Maine Public Service Co	20	1	0	0	2	23
Massachusetts Electric Co	42,989	0	0	0	0	42,989
Massena Town of	0	3	0	0	0	3
Narragansett Electric Co	8,550	0	0	0	0	8,550

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, 1996

(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 Costs [1]
NPCC(U.S.) (Continued)						
New England Power Co	0	853	5,233	0	0	6,086
New Hampshire Elec Coop Inc	689	267	0	0	0	956
New York State Elec & Gas Corp	4,566	0	0	0	0	4,566
Newport Electric Corp	539	0	0	0	0	539
Niagara Mohawk Power Corp	233	0	0	0	0	233
Norwood City of	85	13	0	7	13	118
Omya Inc	1	0	0	0	0	1
Orange & Rockland Utils Inc	3,720	0	1,739	0	0	5,459
Power Authority of State of NY	8,309	0	0	0	0	8,309
Public Service Co of NH	2,532	0	0	0	0	2,532
Reading Town of	10	15	50	0	80	155
Rochester Gas & Electric Corp	1,107	0	0	0	4,519	5,626
Shrewsbury Town of	85	20	0	0	0	105
Taunton City of	202	0	0	0	102	304
United Illuminating Co	5,192	0	0	598	0	5,790
Vermont Electric Coop Inc	205	0	0	0	0	205
Wellesley Town of	0	0	0	18	0	18
Western Massachusetts Elec Co	10,320	0	0	0	0	10,320
NPCC(U.S.) Total	**205,378**	**1,819**	**8,168**	**677**	**8,378**	**224,420**
SERC						
Aiken Electric Coop Inc	62	599	0	0	2	663
Alabama Electric Coop Inc	665	0	0	0	31	696
Alabama Municipal Elec Auth	0	80	0	0	0	80
Alabama Power Co	0	93	26,622	0	388	27,103
Albemarle City of	0	8	5	0	0	13
Amicalola Electric Member Corp	20	10	0	0	0	30
Berkeley Electric Coop Inc	0	520	0	0	0	520
Black River Electric Coop Inc	25	158	0	0	0	183
Brunswick Electric Member Corp	100	410	16	0	0	526
BARC Electric Coop Inc	0	98	0	0	0	98
Camden City of	0	45	0	2	0	47
Carolina Power & Light Co	26,300	3,500	18,200	3,500	0	51,500
Carroll Electric Member Corp	2	0	0	0	0	2
Central Georgia El Member Corp	31	15	0	0	0	46
Central Virginia Electric Coop	0	0	15	0	59	74
Choctawhatche Elec Coop Inc	82	0	0	0	3	85
Clay Electric Coop Inc	0	2,928	0	19	0	2,947
Cobb Electric Membership Corp	285	0	0	0	0	285
Colquitt Electric Members Corp	0	201	0	0	0	201
Community Electric Coop	0	176	1	0	0	177
Coweta-Fayette El Member Corp	630	48	0	0	0	678
Crisp County Power Comm	0	0	2	0	0	2
Douglas City of	2	4	2	0	0	8
Duke Power Co	10,991	7,993	25,031	0	0	44,015
Easley Combined Utility System	0	3	0	0	30	33
East Point City of	0	0	20	0	0	20
Elizabeth City City of	0	345	0	0	0	345
Excelsior Electric Member Corp	0	0	3	10	2	15
Fairfield Electric Coop Inc	0	6	0	0	220	226
Fitzgerald Wtr Lgt & Bond Comm	0	18	0	0	0	18
Flint Electric Membership Corp	347	0	0	0	0	347
Florida Keys El Coop Assn Inc	0	173	0	0	0	173
Florida Power & Light Co	75,762	92,652	0	0	0	168,414
Florida Power Corp	7,092	43,346	21,711	516	429	73,094
Fort Pierce Utilities Auth	200	0	0	0	0	200
Gainesville Regional Utilities	315	0	0	0	174	489
Georgia Power Co	0	2,035	18,426	0	4,035	24,496
Grady County Elec Member Corp	147	0	0	0	0	147
Greenville Utilities Comm	65	4,211	0	0	0	4,276
Greer Comm of Public Works	0	0	0	15	0	15
GreyStone Power Corp	363	43	0	0	750	1,156
Gulf Power Co	2,749	0	0	123	0	2,872
Harrisonburg City of	0	2	0	4	16	22
Hart Electric Member Corp	150	55	0	0	0	205
Haywood Electric Member Corp	3	48	11	4	2	68

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, 1996

(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 Costs [1]
SERC (Continued)						
High Point Town of	0	225	0	0	0	225
Jackson Electric Member Corp	0	204	0	0	0	204
Jacksonville Electric Auth	431	0	0	0	0	431
Jefferson Electric Member Corp	12	24	6	0	0	42
Jones-Onslow Elec Member Corp	100	50	10	0	0	160
Kinston City of	0	65	1,612	0	0	1,677
Kissimmee Utility Authority	279	1,748	0	0	0	2,027
Lakeland City of	0	275	0	0	0	275
Laurens Electric Coop Inc	0	35	0	0	4	39
Laurinburg City of	0	30	0	0	0	30
Lawrenceville City of	0	0	1	1	0	2
Lee County Electric Coop Inc	223	481	12	0	0	716
Leesburg City of	6	38	0	0	0	44
Lumberton City of	0	1	0	0	0	1
Lynches River Elec Coop Inc	123	0	0	0	118	241
Manassas City of	0	10	0	0	0	10
Mecklenburg Electric Coop Inc	0	199	2	0	1	202
Mid-Carolina Electric Coop Inc	0	1,012	0	0	48	1,060
Mississippi Power Co	10	0	0	0	0	10
Mitchell Electric Member Corp	0	25	3	0	0	28
New Bern City of	0	150	0	2,200	0	2,350
New River Light & Power Co	0	23	0	0	0	23
Newnan Wtr Sewer & Light Comm	0	40	0	0	0	40
North Carolina Eastern M P A	0	1,500	75	0	0	1,575
North Carolina El Member Corp	0	15,000	0	0	0	15,000
North Carolina Mun Power Agny	0	905	0	54	0	959
Northern Neck Elec Coop Inc	0	25	0	0	0	25
Northern Virginia Elec Coop	0	1,049	1,172	0	0	2,221
Ocmulgee Electric Member Corp	0	2	0	0	0	2
Orangeburg City of	0	0	0	25	0	25
Orlando Utilities Comm	568	81	24	0	0	673
Palmetto Electric Coop Inc	346	1,252	7	41	0	1,646
Pee Dee Electric Coop Inc	21	0	0	0	24	45
Piedmont Municipal Power Agny	0	386	0	0	0	386
Prince George Electric Coop	0	25	0	0	0	25
Rappahannock Electric Coop	0	651	0	0	0	651
Rayle Electric Membership Corp	13	7	0	0	0	20
Reedy Creek Improvement Dist	75	0	0	0	0	75
Rock Hill City of	0	1	0	0	27	28
Rocky Mount City of	0	125	0	0	0	125
Satilla Rural Elec Member Corp	3	25	0	0	0	28
Sawnee Electric Members Corp	42	500	0	0	0	542
Shenandoah Valley Elec Coop	0	59	0	0	0	59
Singing River Elec Power Assn	61	0	0	1	0	62
Smithfield Town of	0	91	0	0	0	91
South Carolina Electric&Gas Co	1,836	0	0	0	0	1,836
South Carolina Pub Serv Auth	3,210	5,249	0	0	0	8,459
South Mississippi El Pwr Assn	110	0	0	0	0	110
Southside Electric Coop Inc	0	36	0	0	0	36
Sumter Electric Coop Inc	0	143	8	0	0	151
Suwannee Valley Elec Coop Inc	0	22	0	0	0	22
Tallahassee City of	275	0	0	0	331	606
Tampa Electric Co	6,273	11,960	0	435	0	18,668
Tennessee Valley Authority	1,807	3,896	242	0	0	5,945
Thomasville City of	0	2	0	0	0	2
Tideland Electric Member Corp	0	100	50	0	0	150
Tri-County Elec Member Corp	32	0	0	0	0	32
Tri-County Elec Member Corp	0	132	10	0	0	142
Virginia Electric & Power Co	2,735	10,527	7,269	11	0	20,542
Washington City of	0	0	62	0	0	62
Wilson City of	5	75	2,500	0	0	2,580
Withlacoochee River Elec Coop	62	0	0	0	10	72
SERC Total	**145,046**	**218,284**	**123,130**	**6,961**	**6,704**	**500,125**

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, 1996

(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 Costs [1]
SPP						
Alfalfa Electric Coop Inc	0	27	0	0	0	27
Altus City of	0	1	2	0	0	3
C & L Electric Coop Corp	0	0	1	0	0	1
Caddo Electric Coop Inc	0	450	0	0	0	450
Cajun Electric Power Coop Inc	942	0	0	0	0	942
Carroll Electric Coop Corp	0	21	0	0	0	21
Central Rural Electric Coop	0	0	63	0	0	63
Cookson Hills Elec Coop Inc	0	521	0	0	0	521
Craighead Electric Coop Corp	0	0	182	0	0	182
Dixie Electric Membership Corp	0	98	0	0	0	98
Duncan City of	15	0	0	0	0	15
Empire District Electric Co	0	0	912	0	0	912
Farmers ' Electric Coop Inc	0	0	2	0	0	2
First Electric Coop Corp	0	70	0	0	0	70
Grundy Electric Coop Inc	10	600	6	0	0	616
Independence City of	107	0	0	0	0	107
Indian Electric Coop Inc	0	44	0	0	0	44
Kansas City City of	0	0	0	0	19	19
Kansas City Power & Light Co	0	35	1,245	0	0	1,280
Kansas Electric Power Coop Inc	0	20	30	2	12	64
Kansas Gas & Electric Co	0	760	0	0	0	760
Lamb County Electric Coop Inc	0	35	0	0	0	35
Mississippi Cnty Elec Coop Inc	0	42	0	0	0	42
North Arkansas Elec Coop Inc	0	163	0	0	0	163
Northeast Louisiana Power Coop	0	0	0	0	50	50
Oklahoma Gas & Electric Co	0	0	6,125	0	5,719	11,844
Oklahoma Municipal Power Auth	0	0	0	0	41	41
Osceola City of	0	0	552	0	0	552
Ozark Electric Coop Inc	1	0	1	0	0	2
Petit Jean Electric Coop Corp	0	15	8	0	0	23
Red River Valley Rrl Elec Assn	51	0	0	0	3	54
South Central Ark El Coop Inc	0	0	0	4	0	4
South Plains Electric Coop Inc	250	225	0	0	0	475
Southwestern Electric Power Co	1,479	0	0	0	0	1,479
Southwestern Public Service Co	2,591	0	0	0	0	2,591
Verdigris Valley Elec Coop Inc	0	101	5	0	0	106
Western Resources Inc	0	720	1,632	0	0	2,352
White River Valley El Coop Inc	0	0	1	0	0	1
Woodruff Electric Coop Corp	0	54	0	20	0	74
SPP Total	**5,446**	**4,002**	**10,767**	**26**	**5,844**	**26,085**
WSCC(U.S.)						
Alameda City of	142	0	18	0	0	160
Anaheim City of	493	22	426	130	170	1,241
Arizona Electric Pwr Coop Inc	0	166	0	0	0	166
Arizona Public Service Co	3,135	0	0	0	0	3,135
Bonneville Power Admin	64,075	0	0	0	6,695	70,770
Boulder City City of	105	0	0	0	0	105
Bountiful City City of	4	0	7	0	0	11
Canby Utility Board	16	0	0	0	0	16
Colorado Springs City of	500	0	0	0	0	500
Columbia River Peoples Ut Dist	36	0	0	0	0	36
Dixie Escalante R E A Inc	0	0	2	0	0	2
El Paso Electric Co	375	0	0	100	0	475
Ellensburg City of	410	0	0	0	0	410
Emerald People 's Utility Dist	1,095	0	0	0	0	1,095
Eugene City of	5,700	0	0	0	0	5,700
Forest Grove City of	258	0	0	0	0	258
Fort Collins City of	0	101	0	0	0	101
Idaho Power Co	3,741	0	0	0	0	3,741
Imperial Irrigation District	189	0	0	0	0	189
Longmont City of	7	0	0	0	7	14
Los Angeles City of	678	0	0	0	0	678
Loveland City of	90	0	0	6	0	96
Modesto Irrigation District	461	271	419	0	0	1,151
Mohave Electric Coop Inc	3	3	0	0	0	6

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, 1996

(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 Costs [1]
WSCC(U.S.) (Continued)						
Montana Power Co	3,046	0	0	0	0	3,046
Mountain View Elec Assn Inc	0	700	100	0	0	800
Navopache Electric Coop Inc	4	65	0	56	24	149
Nevada Power Co	919	0	0	0	0	919
Oregon Trail El Cons Coop Inc	41	0	0	0	0	41
Pacific Gas & Electric Co	77,474	0	1,264	0	0	78,738
PacifiCorp	14,791	0	0	0	0	14,791
Palo Alto City of	250	0	0	0	0	250
Portland General Electric Co	12,318	0	0	0	0	12,318
Public Service Co of Colorado	14,971	0	50	0	0	15,021
Puget Sound Power & Light Co	4,602	0	0	0	0	4,602
PUD No 1 of Benton County	52	0	0	0	0	52
PUD No 1 of Clark County	2,215	0	0	0	0	2,215
PUD No 1 of Pend Oreille Cnty	217	0	0	0	0	217
PUD No 2 of Grant County	827	0	0	1,200	0	2,027
Redding City of	0	24	10	37	77	148
Roseville City of	354	75	0	0	0	429
Sacramento Municipal Util Dist	19,910	2,447	42	480	5	22,884
Salem Electric Coop	17	0	0	0	0	17
Salt River Proj Ag I & P Dist	3,183	0	1	1	0	3,185
San Diego Gas & Electric Co	46,172	0	195	232	1	46,600
San Miguel Power Assn Inc	10	25	0	0	0	35
Santa Clara City of	0	0	200	2	0	202
Seattle City of	9,712	0	0	0	0	9,712
Southern California Edison Co	59,492	576	815	1,960	0	62,843
Springfield City of	1,676	0	0	0	42	1,718
Sulphur Springs Valley E C Inc	0	5	0	0	0	5
Tacoma City of	0	1,318	0	0	0	1,318
Trico Electric Coop Inc	0	0	3	0	0	3
Tucson Electric Power Co	2,645	0	0	0	0	2,645
Turlock Irrigation District	245	0	0	0	0	245
United Power Inc	30	52	6	7	0	95
Utah Municipal Power Agency	52	0	0	0	0	52
Vernon City of	0	0	0	5	11	16
Washington Water Power Co	2,370	0	0	0	0	2,370
Yellowstone Valley Elec Co-op	0	0	0	145	0	145
WSCC(U.S.) Total	**359,108**	**5,850**	**3,558**	**4,361**	**7,032**	**379,909**
Contiguous U.S.	**1,049,215**	**322,693**	**186,236**	**25,667**	**37,016**	**1,620,827**
ASCC						
Alaska Electric Light&Power Co	0	40	14	0	0	54
Golden Valley Elec Assn Inc	125	0	0	0	0	125
ASCC Total	**125**	**40**	**14**	**0**	**0**	**179**
Hawaii						
Hawaii Electric Light Co Inc	1,409	0	0	0	0	1,409
Hawaiian Electric Co Inc	862	0	0	0	0	862
Maui Electric Co Ltd	311	0	0	0	0	311
Hawaii Total	**2,582**	**0**	**0**	**0**	**0**	**2,582**
U.S. Total	**1,051,922**	**322,733**	**186,250**	**25,667**	**37,016**	**1,623,588**

[1] 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 megawatthours.

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, 1996

(Thousand Dollars)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Administrative	Marketing	Monitoring and Evaluation	Other [1]	Total Indirect Utility Cost
ECAR					
American Mun Power-Ohio Inc	14	0	9	28	51
Cincinnati Gas & Electric Co	145	2	2	169	318
Consumers Energy Co	370	0	118	0	488
Crawfordsville Elec Lgt&Pwr Co	1	0	0	0	1
Detroit Edison Co	255	0	539	0	794
East Kentucky Power Coop Inc	400	100	150	0	650
Hagerstown City of	0	10	0	0	10
Harrison County Rural E C C	6	0	0	0	6
Kentucky Utilities Co	274	1,461	92	0	1,827
Lansing City of	0	15	2	0	17
Ohio Edison Co	261	0	100	0	361
Owen Electric Coop Inc	0	43	0	0	43
Owensboro City of	0	0	0	25	25
PSI Energy Inc	477	8	6	551	1,042
South Central Power Co	20	15	0	0	35
Southern Indiana Gas & Elec Co	450	400	452	12	1,314
Wabash Valley Power Assn Inc	50	10	25	75	160
ECAR Total	**2,723**	**2,064**	**1,495**	**860**	**7,142**
ERCOT					
Austin City of	1,465	690	573	0	2,728
Brazos Electric Power Coop Inc	76	0	0	0	76
College Station City of	50	8	0	0	58
East Texas Electric Coop Inc	0	0	0	80	80
Georgetown City of	5	0	10	0	15
Greenville Electric Util Sys	8	4	3	0	15
Guadalupe Valley Elec Coop Inc	7	1	35	0	43
Houston Lighting & Power Co	2,472	799	108	2,327	5,706
Lower Colorado River Authority	684	0	0	0	684
Magic Valley Electric Coop Inc	25	3	10	0	38
Medina Electric Coop Inc	15	0	3	0	18
San Bernard Electric Coop Inc	4	0	0	0	4
Texas Utilities Electric Co	589	0	0	0	589
ERCOT Total	**5,400**	**1,505**	**742**	**2,407**	**10,054**
MAAC					
Allegheny Electric Coop Inc	472	391	6	4	873
Baltimore Gas & Electric Co	2,111	0	520	0	2,631
Delmarva Power & Light Co	0	1,020	338	0	1,358
Jersey Central Power&Light Co	2,078	1,376	77	1,607	5,138
Metropolitan Edison Co	1,395	589	0	1,466	3,450
Pennsylvania Electric Co	955	394	0	1,305	2,654
Potomac Electric Power Co	2,485	642	13	0	3,140
Public Service Electric&Gas Co	1,027	648	0	0	1,675
Southern Maryland El Coop Inc	118	91	0	0	209
UGI Utilities Inc	21	0	21	0	42
MAAC Total	**10,662**	**5,151**	**975**	**4,382**	**21,170**
MAIN					
Boone Electric Coop	2	2	1	0	5
Central Illinois Light Co	151	0	0	0	151
Coles-Moultrie Electric Coop	0	50	0	0	50
Columbia City of	283	88	10	0	381
Corn Belt Electric Coop Inc	9	8	0	0	17
Cuivre River Electric Coop Inc	0	1	4	0	5
Eastern Illini Electric Coop	0	10	20	0	30
Illinois Power Co	0	0	0	1	1
Madison Gas & Electric Co	1,759	677	177	0	2,613
Marshfield City of	23	42	21	26	112
Menard Electric Coop	2	8	6	0	16
Shelby Electric Coop Inc	4	2	4	0	10
Southwestern Electric Coop Inc	88	10	0	0	98
Springfield City of	63	117	15	0	195
Tri-County Electric Coop Inc	2	2	0	0	4
Wayne-White Counties Elec Coop	4	0	2	0	6
Wisconsin Electric Power Co	5,744	934	296	0	6,974

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, 1996

(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Administrative	Marketing	Monitoring and Evaluation	Other [1]	Total Indirect Utility Cost
MAIN (Continued)					
Wisconsin Power & Light Co	367	0	1,149	0	1,516
Wisconsin Public Power Inc Sys	88	0	0	0	88
Wisconsin Public Service Corp	0	3,500	0	0	3,500
MAIN Total	**8,589**	**5,451**	**1,705**	**27**	**15,772**
MAPP(U.S.)					
Ames City of	52	21	0	0	73
Austin City of	32	24	8	0	64
Barron Electric Coop	0	12	0	0	12
Cass County Electric Coop Inc	4	44	4	0	52
Central Iowa Power Coop	225	337	112	0	674
Dawson County Public Pwr Dist	0	0	0	10	10
East River Elec Power Coop Inc	0	279	0	0	279
Eau Claire Electric Coop	0	20	0	0	20
Fairmont Public Utilities Comm	1	0	0	0	1
Freeborn-Mower Electric Coop	0	2	0	0	2
Grant-Lafayette Electric Coop	27	28	10	0	65
Interstate Power Co	228	380	234	0	842
Iowa Lakes Electric Coop	26	312	21	0	359
IES Utilities Inc	1,141	144	1,910	1,439	4,634
Marshall City of	11	4	1	0	16
Midland Power Coop	12	12	4	0	28
MidAmerican Energy Co	656	169	198	1,655	2,678
Minnkota Power Coop Inc	50	100	0	0	150
Moorhead City of	81	17	0	0	98
Municipal Energy Agency of NE	15	10	5	0	30
MDU Resources Group Inc	344	457	0	0	801
Nebraska Public Power District	157	3,023	5	0	3,185
Nodak Electric Coop Inc	11	5	38	0	54
Northern States Power Co of MN	17,909	0	0	0	17,909
Northern States Power Co of WI	106	1,235	293	0	1,634
Northwest Iowa Power Coop	10	10	5	0	25
Oakdale Electric Coop	40	69	0	0	109
Omaha Public Power District	50	300	0	0	350
Otter Tail Power Co	0	4,453	0	0	4,453
Owatonna City of	12	5	2	0	19
People 's Coop Power Assn	0	4	0	0	4
Pierre City of	1	0	1	0	2
R S R Electric Coop Inc	10	10	2	0	22
Rice Lake Utilities	17	0	0	0	17
Rochester Public Utilities	40	7	3	0	50
Shakopee Public Utilities Comm	1	1	0	0	2
Spencer City of	4	3	2	3	12
Superior Water Light&Power Co	119	0	0	0	119
Thief River Falls City of	9	18	0	0	27
Trempealeau Electric Coop	0	20	0	0	20
Tri-County Electric Coop	30	19	0	0	49
Verendrye Electric Coop Inc	10	35	5	3	53
Vernon Electric Coop	0	13	0	0	13
MAPP(U.S.) Total	**21,441**	**11,602**	**2,863**	**3,110**	**39,016**
NPCC(U.S.)					
Bangor Hydro-Electric Co	42	0	0	0	42
Blackstone Valley Electric Co	294	67	57	0	418
Boston Edison Co	732	0	1,303	0	2,035
Braintree Town of	30	3	0	0	33
Burlington City of	114	1	44	0	159
Cambridge Electric Light Co	228	0	25	0	253
Central Hudson Gas & Elec Corp	44	0	70	0	114
Central Maine Power Co	563	0	0	120	683
Central Vermont Pub Serv Corp	1,153	0	77	0	1,230
Chicopee City of	10	8	2	0	20
Citizens Utilities Co	814	281	9	0	1,104
Commonwealth Electric Co	582	0	85	0	667
Concord Electric Co	129	1	13	0	143

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, 1996

(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Administrative	Marketing	Monitoring and Evaluation	Other [1]	Total Indirect Utility Cost
NPCC(U.S.) (Continued)					
Connecticut Light & Power Co	1,837	0	1,514	929	4,280
Connecticut Valley Elec Co Inc	41	0	3	0	44
Consolidated Edison Co-NY Inc	3,145	0	3,660	0	6,805
Eastern Edison Co	634	160	121	0	915
Exeter & Hampton Electric Co	135	1	14	0	150
Fitchburg Gas & Elec Light Co	152	0	18	0	170
Granite State Electric Co	146	43	41	0	230
Green Mountain Power Corp	344	0	65	391	800
Hingham City of	0	4	0	0	4
Holyoke City of	30	0	0	0	30
Jamestown City of	95	0	0	0	95
Long Island Lighting Co	1,045	0	943	623	2,611
Maine Public Service Co	13	1	0	38	52
Massachusetts Electric Co	3,554	1,122	1,607	0	6,283
Narragansett Electric Co	1,222	194	468	0	1,884
New England Power Co	119	0	0	0	119
New Hampshire Elec Coop Inc	352	262	45	0	659
Newport Electric Corp	104	27	27	0	158
Niagara Mohawk Power Corp	500	0	24	0	524
Norwood City of	0	5	12	0	17
Orange & Rockland Utils Inc	166	204	275	189	834
Power Authority of State of NY	1,942	0	0	0	1,942
Public Service Co of NH	87	0	0	109	196
Rochester Gas & Electric Corp	200	0	118	0	318
Shrewsbury Town of	0	0	0	5	5
United Illuminating Co	252	19	307	0	578
Vermont Electric Coop Inc	164	0	0	0	164
Western Massachusetts Elec Co	700	0	775	497	1,972
NPCC(U.S.) Total	**21,714**	**2,403**	**11,722**	**2,901**	**38,740**
SERC					
Aiken Electric Coop Inc	150	5	0	0	155
Alabama Electric Coop Inc	143	387	43	0	573
Alabama Municipal Elec Auth	30	0	0	0	30
Alabama Power Co	9,301	14,962	180	0	24,443
Albemarle City of	18	3	2	0	23
Berkeley Electric Coop Inc	45	125	105	0	275
Black River Electric Coop Inc	30	2	0	0	32
Brunswick Electric Member Corp	25	80	40	0	145
Camden City of	10	2	0	0	12
Carroll Electric Member Corp	4	8	1	0	13
Central Georgia El Member Corp	36	26	0	0	62
Central Virginia Electric Coop	2	0	0	0	2
Choctawhatche Elec Coop Inc	69	35	0	0	104
Cobb Electric Membership Corp	226	749	0	0	975
Coweta-Fayette El Member Corp	187	380	0	0	567
Douglas City of	3	2	2	0	7
Easley Combined Utility System	2	0	0	0	2
East Point City of	1	0	5	0	6
Elizabeth City City of	9	15	9	0	33
Fairfield Electric Coop Inc	11	188	0	0	199
Flint Electric Membership Corp	112	31	0	0	143
Florida Keys El Coop Assn Inc	10	1	0	0	11
Florida Power & Light Co	10,669	0	0	1,290	11,959
Florida Power Corp	2,166	285	0	140	2,591
Gainesville Regional Utilities	93	108	0	0	201
Greenville Utilities Comm	34	3	72	0	109
GreyStone Power Corp	0	5	0	247	252
Haywood Electric Member Corp	4	4	2	0	10
Jacksonville Electric Auth	98	70	0	0	168
Jefferson Electric Member Corp	6	6	0	0	12
Jones-Onslow Elec Member Corp	25	100	0	0	125
Lakeland City of	78	4	0	0	82
Lamar Electric Membership Corp	3	0	0	0	3
Laurens Electric Coop Inc	1	3	0	0	4
Laurinburg City of	4	0	12	0	16

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, 1996

(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Administrative	Marketing	Monitoring and Evaluation	Other [1]	Total Indirect Utility Cost
SERC (Continued)					
Lee County Electric Coop Inc	120	0	0	0	120
Leesburg City of	0	0	1	0	1
Lumberton City of	24	0	0	0	24
Manassas City of	2	0	2	0	4
Mecklenburg Electric Coop Inc	21	0	0	0	21
Mid-Carolina Electric Coop Inc	104	53	0	0	157
New Bern City of	50	5	0	0	55
New River Light & Power Co	2	0	1	0	3
North Carolina Eastern M P A	130	200	50	0	380
North Carolina Mun Power Agny	176	178	43	0	397
Northern Neck Elec Coop Inc	8	10	0	0	18
Northern Virginia Elec Coop	24	49	4	0	77
Orangeburg City of	5	2	3	0	10
Orlando Utilities Comm	830	75	0	0	905
Palmetto Electric Coop Inc	29	117	0	0	146
Prince George Electric Coop	1	0	0	0	1
Rayle Electric Membership Corp	2	5	0	0	7
Reedy Creek Improvement Dist	50	10	10	0	70
Satilla Rural Elec Member Corp	1	2	1	0	4
Sawnee Electric Members Corp	21	21	38	0	80
Shenandoah Valley Elec Coop	33	20	0	0	53
Singing River Elec Power Assn	5	1	1	0	7
Smithfield Town of	1	0	0	0	1
South Carolina Pub Serv Auth	647	0	0	0	647
Southside Electric Coop Inc	8	2	0	0	10
Sumter Electric Coop Inc	15	1	0	0	16
Tallahassee City of	241	13	0	0	254
Tampa Electric Co	229	0	0	0	229
Tri-County Elec Member Corp	65	5	10	0	80
Virginia Electric & Power Co	2,175	110	115	1,277	3,677
Wilson City of	70	5	5	0	80
York Electric Coop Inc	8	5	2	20	35
SERC Total	**28,702**	**18,478**	**759**	**2,974**	**50,913**
SPP					
Altus City of	1	0	1	0	2
Cajun Electric Power Coop Inc	110	495	0	0	605
Carroll Electric Coop Corp	5	0	10	0	15
Craighead Electric Coop Corp	37	35	29	0	101
Duncan City of	40	20	0	0	60
First Electric Coop Corp	5	5	5	0	15
Golden Spread Elec Coop Inc	5	0	0	55	60
Grundy Electric Coop Inc	70	20	5	0	95
Independence City of	25	2	5	0	32
Kansas City City of	249	142	0	0	391
Kansas City Power & Light Co	0	0	0	150	150
Kansas Electric Power Coop Inc	2	22	15	0	39
Oklahoma Municipal Power Auth	17	15	0	0	32
Ozark Electric Coop Inc	1	0	0	0	1
Petit Jean Electric Coop Corp	5	0	15	32	52
Red River Valley Rrl Elec Assn	2	0	2	0	4
South Central Ark El Coop Inc	0	0	0	1	1
Southwestern Public Service Co	446	56	108	0	610
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
SPP Total	**1,025**	**812**	**223**	**238**	**2,298**
WSCC(U.S.)					
Alameda City of	124	0	0	0	124
Anaheim City of	473	38	0	0	511
Arizona Public Service Co	1,259	1,190	389	0	2,838
Bonneville Power Admin	23,909	0	956	0	24,865
Boulder City City of	80	2	0	0	82
Bountiful City City of	1	0	1	0	2

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, 1996

(Thousand Dollars) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Administrative	Marketing	Monitoring and Evaluation	Other [1]	Total Indirect Utility Cost
WSCC(U.S.) (Continued)					
Canby Utility Board	3	0	0	0	3
Colorado Springs City of	100	0	0	0	100
Columbia River Peoples Ut Dist	107	30	0	0	137
Dixie Escalante R E A Inc	5	0	0	0	5
El Paso Electric Co	155	0	60	150	365
Ellensburg City of	104	0	0	0	104
Eugene City of	2,500	30	10	0	2,540
Forest Grove City of	45	0	0	0	45
Fort Collins City of	30	0	0	0	30
Idaho Power Co	609	0	0	0	609
Imperial Irrigation District	0	41	0	0	41
La Plata Electric Assn Inc	5	2	0	0	7
Longmont City of	90	0	2	0	92
Los Angeles City of	111	165	136	0	412
Loveland City of	30	15	0	0	45
Mohave Electric Coop Inc	0	5	10	0	15
Montana Power Co	0	1,132	174	0	1,306
Mountain Parks Electric Inc	0	20	2	0	22
Mountain View Elec Assn Inc	50	20	100	0	170
Navopache Electric Coop Inc	10	4	15	22	51
Oregon Trail El Cons Coop Inc	22	15	0	0	37
Pacific Gas & Electric Co	3,600	0	8,143	0	11,743
PacifiCorp	409	11	488	814	1,722
Pasadena City of	0	0	0	500	500
Portland General Electric Co	1,002	0	0	0	1,002
Public Service Co of Colorado	180	0	0	0	180
Puget Sound Power & Light Co	698	0	9	0	707
PUD No 1 of Benton County	0	25	0	0	25
PUD No 1 of Clark County	0	0	0	390	390
Roseville City of	25	3	3	0	31
Sacramento Municipal Util Dist	1,063	0	801	2,031	3,895
Salem Electric Coop	125	15	0	0	140
Salt River Proj Ag I & P Dist	3,656	628	640	0	4,924
San Diego Gas & Electric Co	0	0	4,080	1,879	5,959
San Miguel Power Assn Inc	5	5	5	0	15
Santa Clara City of	75	0	0	0	75
Seattle City of	6,075	0	0	3,378	9,453
Southern California Edison Co	0	0	10,122	1,726	11,848
Springfield City of	472	0	0	0	472
Tacoma City of	1,325	0	588	922	2,835
United Power Inc	25	40	29	38	132
Utah Municipal Power Agency	1	1	4	0	6
Vernon City of	73	0	5	0	78
Washington Water Power Co	1,109	0	24	0	1,133
Yellowstone Valley Elec Co-op	6	17	4	0	27
WSCC(U.S.) Total	**49,746**	**3,454**	**26,800**	**11,850**	**91,850**
Contiguous U.S.	**150,002**	**50,920**	**47,284**	**28,749**	**276,955**
ASCC					
Alaska Electric Light&Power Co	5	2	2	0	9
Golden Valley Elec Assn Inc	91	12	0	0	103
ASCC Total	**96**	**14**	**2**	**0**	**112**
Hawaii					
Hawaiian Electric Co Inc	789	307	215	231	1,542
Hawaii Total	**789**	**307**	**215**	**231**	**1,542**
U.S. Total	**150,887**	**51,241**	**47,501**	**28,980**	**278,609**

[1] 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. DSM data collected on Form EIA-861 are estimated by electric utilities based on engineering data, statistical analysis, or other estimation methods.

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. 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. In years prior to 1992, utilities with sales for resale and sales to ultimate consumers 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 Energy Administration Act of 1974 (Public Law 93-275) and the Energy Policy Act of 1992 (Public Law 102-486) 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 ± 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 are final.

- **Electric Power Annual Volume II 1996**

  The chapter in the *Electric Power Annual Volume II* for DSM contains data on demand-side management from the Form EIA-861. Data for 1996 and 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

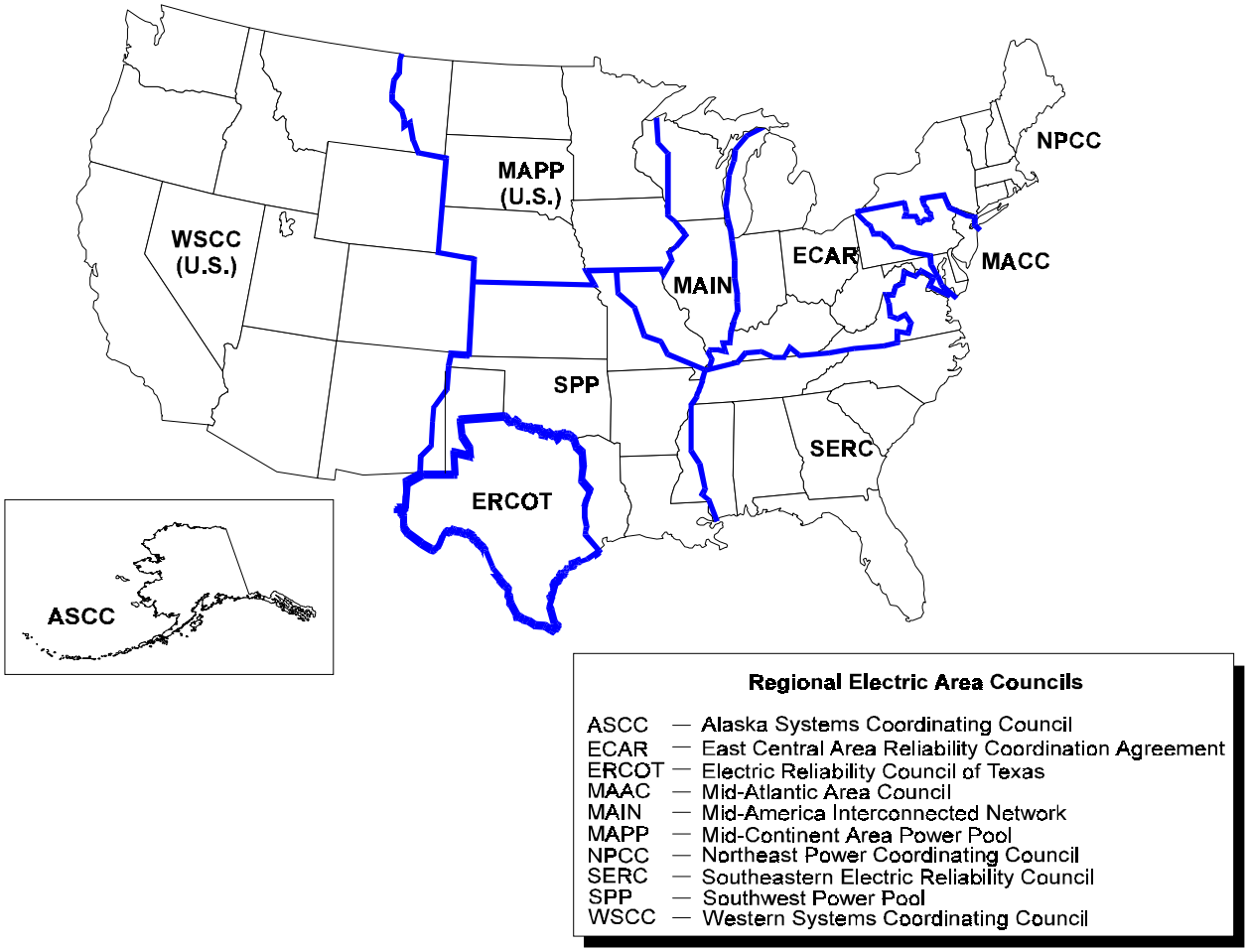
The NERC regions are:

- 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

Figure A1. North American Reliability Council Regions for the Contiguous United States and Alaska



Source: North American Electric Reliability Council.

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, 1994, 1995, and 1996 filed on the Form EIA-861 are also available on the Internet in compressed format through FTP at ftp.eia.doe.gov, or through use of a world-wide-web browser such as Netscape at www.eia.doe.gov, in the /pub/energy subdirectory.

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 Reductions: 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.

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.

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.

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 complete 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, hydroelectric 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 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 Costs: 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.

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

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.

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 Costs: 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 Costs: 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, municipals, 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.

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.

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.