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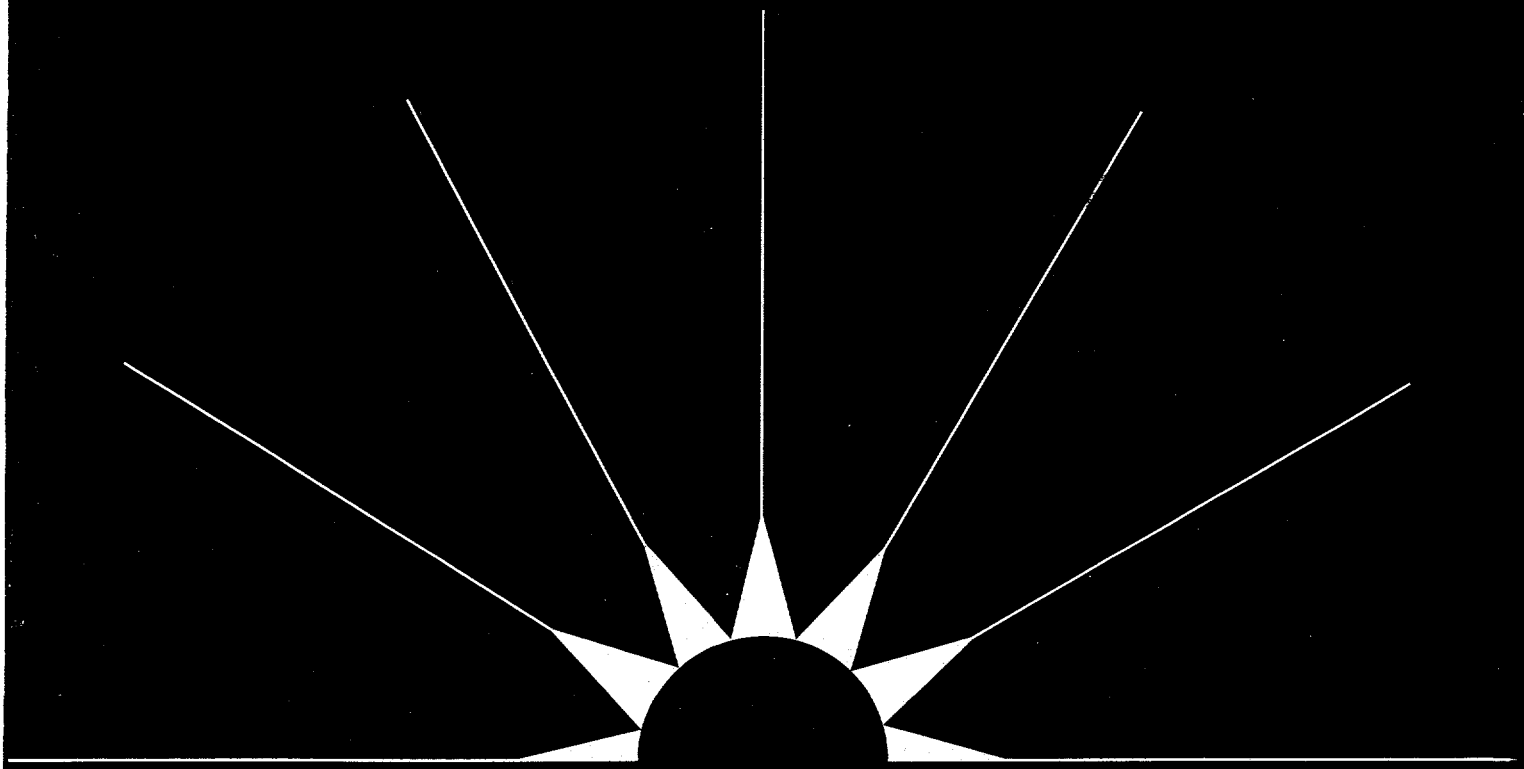
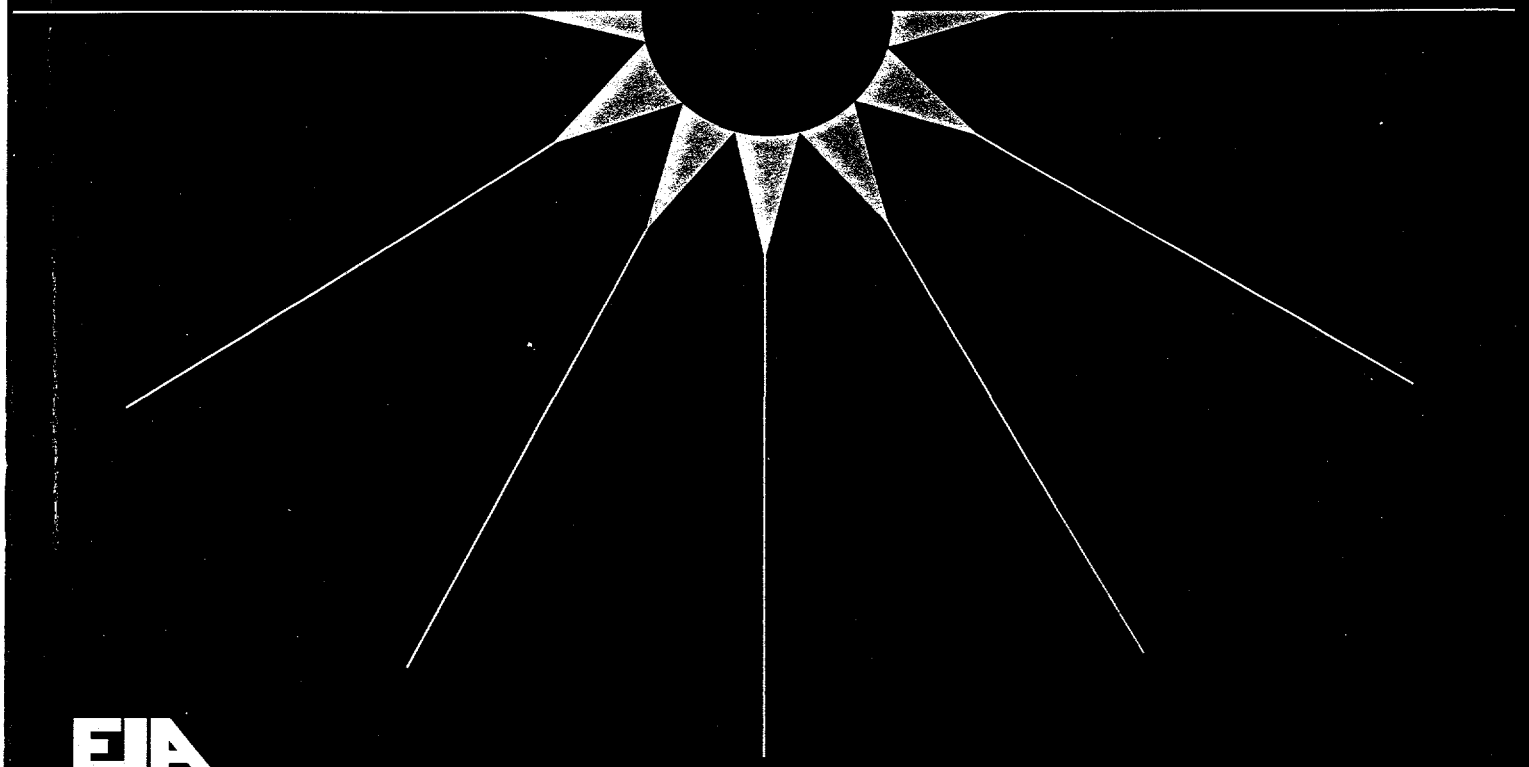


U.S. Electric Utility Demand-Side Management 1994



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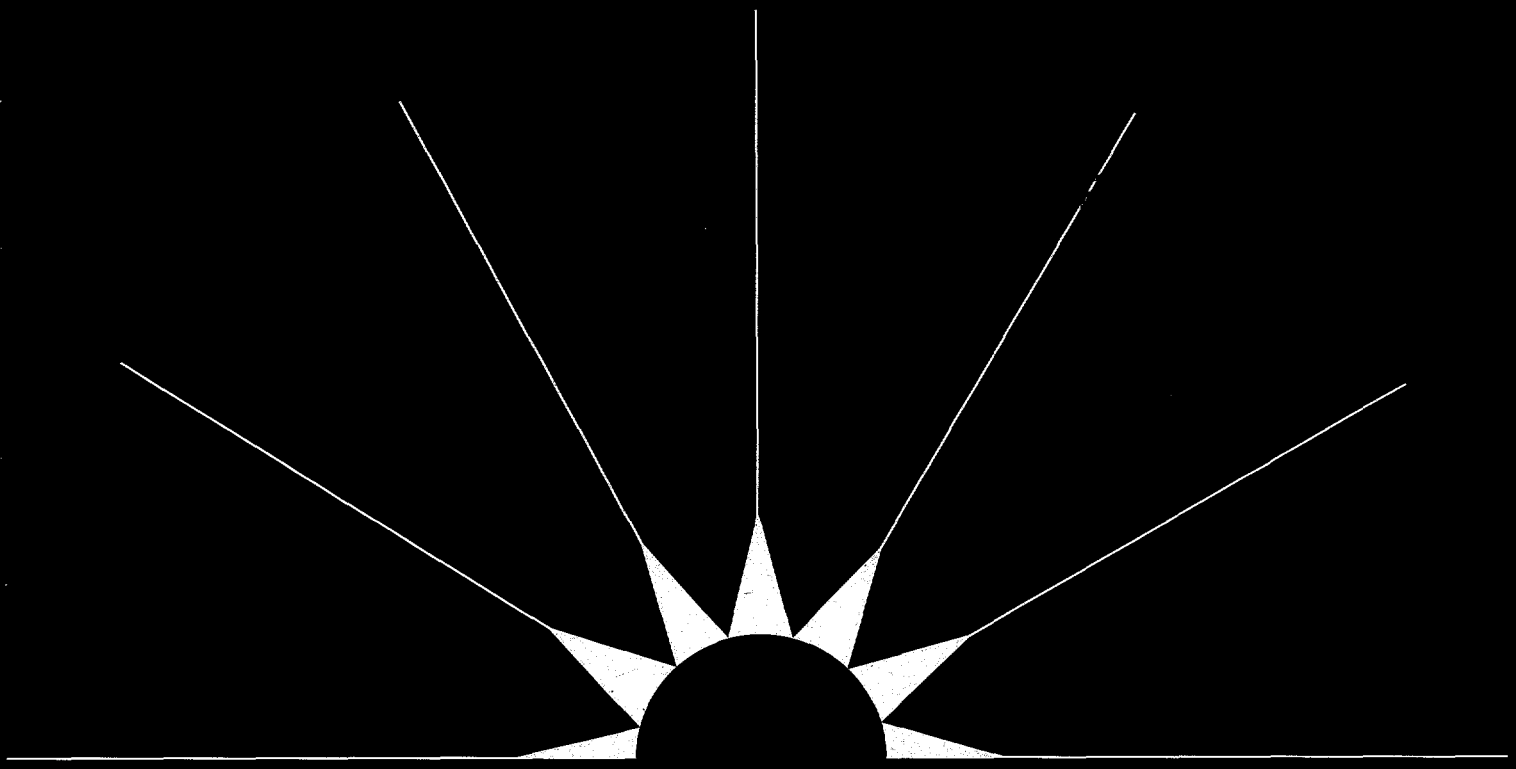

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U.S. Electric Utility Demand-Side Management 1994

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Preface

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

Target Audience

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

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

Source of Data

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

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The Energy Information Administration thanks Diane Pirkey, Demand-Side Management Program Manager, Office of Utility Technology of the Office of Renewable Energy, U.S. Department of Energy, for her significant contribution to this publication.

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

This chapter provides a background of electric utility demand-side management in the United States and summarizes pertinent statistics for large electric utilities[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 peak load reductions. Utilities primarily activate these programs at the time of peak load. Load management programs have little effect on total energy consumption. Electric utilities have steadily increased DSM programs in the last decade to promote energy efficiency, reduce toxic air emissions, and achieve cost effectiveness for both utilities and consumers, mainly by deferring the need to build new power plants.

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

Energy Efficiency programs are aimed at reducing the energy used by specific end-use devices and systems, without reducing the quality of energy services provided. These programs reduce overall electricity consumption over many hours during the year, although the greatest impacts of cost-effective programs often coincide with periods of peak usage. Such savings are generally achieved by substituting technologically more advanced equipment to produce equal levels of energy services (e.g., lighting, heating, motor drive) with less electricity. Examples include energy saving appliances and lighting, high-efficiency heating, ventilating and air conditioning (HVAC) systems or control modification, efficient building design, advanced electric motors and drive systems, and heat recovery systems. Energy efficiency programs frequently incorporate rebates, financing, or other financial incentives for participation.

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

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

Other Load Management refers to programs other than direct load control and interruptible load that limit peak loads, shift peak load from on-peak to off-peak hours, or encourage consumers to respond to changes in the utility's cost of providing power.[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 program

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.

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

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

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

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

The Energy Policy Act of 1992 (EPACT) represents the continuing Federal interest in encouraging energy efficiency. EPACT requires State public service commissions to consider standards that will require utilities to employ Integrated Resource Planning (IRP). Consequently, most significant regulatory requirements effecting DSM data are occurring at the State level. The concept of IRP also began in the 1970's when many States began to review utilities' plans for new generation capacity. Some electric utilities had built controversial capacity additions over which there had been limited or no advance regulatory oversight. A majority of States now require IRP, and a continued interest in DSM can be partially attributed to it. IRP differs from conventional resource planning in that utilities consider both demand- and supply-side resources as options for meeting future electricity requirements, rather than just supply-side resources. Specifically, a utility is able to assume a decrease in demand as a result of DSM programs when planning to meet future electricity needs, rather than increasing generation.

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

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

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

The Utility Cost Test measures the net change in a utility's revenue requirement resulting from a DSM

program. The test compares the reduction in marginal energy and demand costs with utility program costs, incentive payments, and increased supply costs for a period in which load is increased. Designed to focus on a utility's revenue requirement, the test does not include any net costs incurred by participants.

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

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

The Rate Impact Measure Test measures the direction and magnitude of the expected changes in rates for all customers when a utility implements a DSM program. The equation functions initially in the same manner as the utility cost test, comparing avoided supply cost savings with cost to the utility. It also, however, measures the revenue-shifting effect unique to DSM --that is, when costs must be spread over a smaller sales volume. The shift reduces revenue requirements, but not to the same extent as sales are reduced by DSM programs. The difference causes an increase in rates on a cents per kilowatthour basis. If a utility has excess capacity and its average costs exceeds its marginal costs, a DSM program will likely increase rates. The converse is true when marginal costs are forecast to exceed average costs.

Verification

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

Current Issues and Trends

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

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

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

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

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

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

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

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

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

NA=Data not available.

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

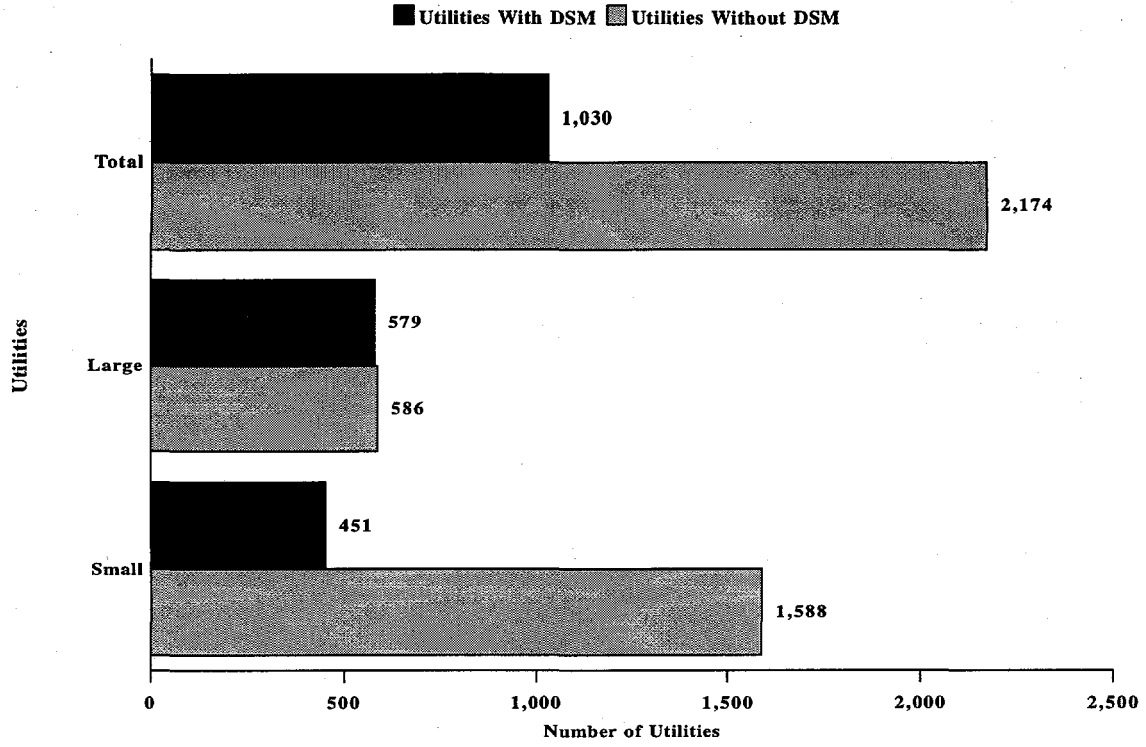
Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

[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 1994,* DOE/EIA0540(94) (Washington, DC, November 1995), Table 1, p. 5.

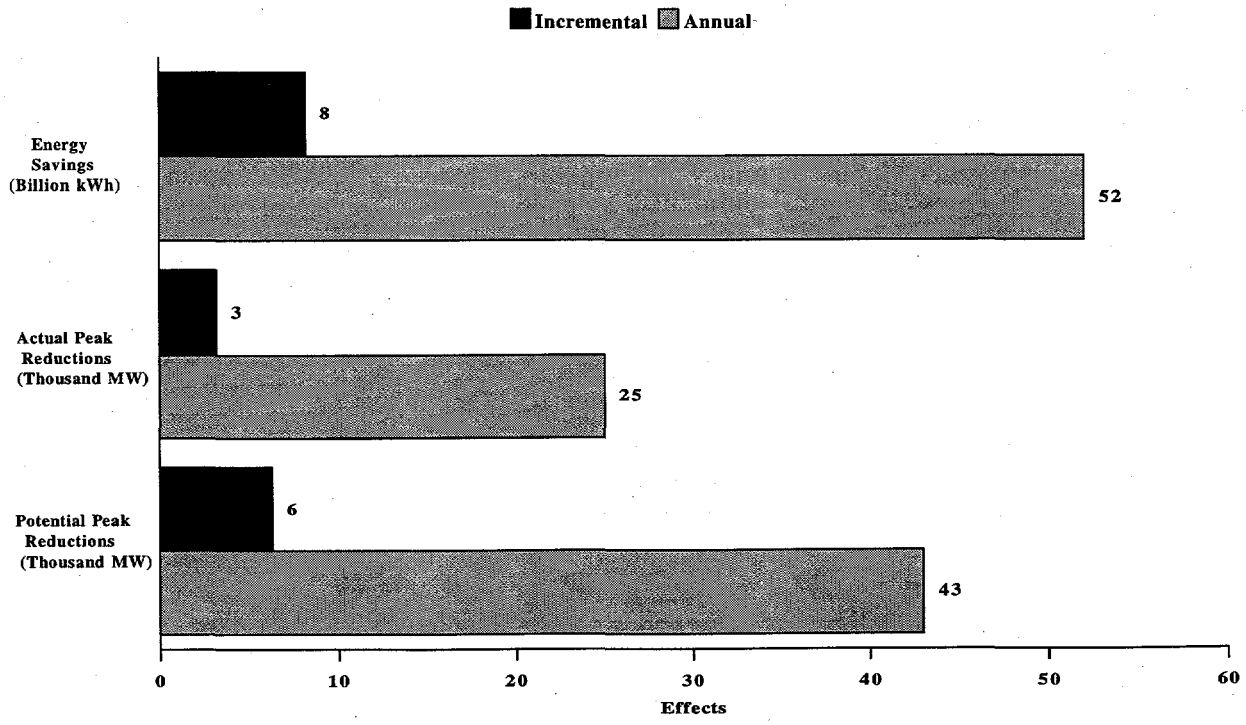
[5] It is incorrect to assume that 1993 annual effects plus 1994 incremental effects are equal to 1994 annual effects. Reasons for this discrepancy include incremental effects being annualized, and the effects of participants dropping out of programs that are not included in incremental effects.

Figure 1. Number of U.S. Electric Utilities With and Without DSM Programs, 1994



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, 1994



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

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

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

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

The 100 utilities with the greatest energy savings accounted for 95.1 percent of total energy savings. The 50 utilities with the greatest energy savings accounted for 86.7 percent of the total, and the 25 top utilities accounted for 74.5 percent of the total (Figure 4). These 100, 50, and 25 utilities with the greatest energy savings represented 57.8 percent, 39.1 percent, and 25.3 percent, respectively, of total retail sales of electricity in the United States for 1994.

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

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

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

[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.

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

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

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

By program category, the greatest decrease from 1993 to 1994 in incremental energy savings for large utilities was in the energy efficiency category, which decreased 418 million kWh. For small electric utilities in 1994, other load management programs increased 1 million kWh, while all other categories either were unchanged or decreased (Table 7).

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

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

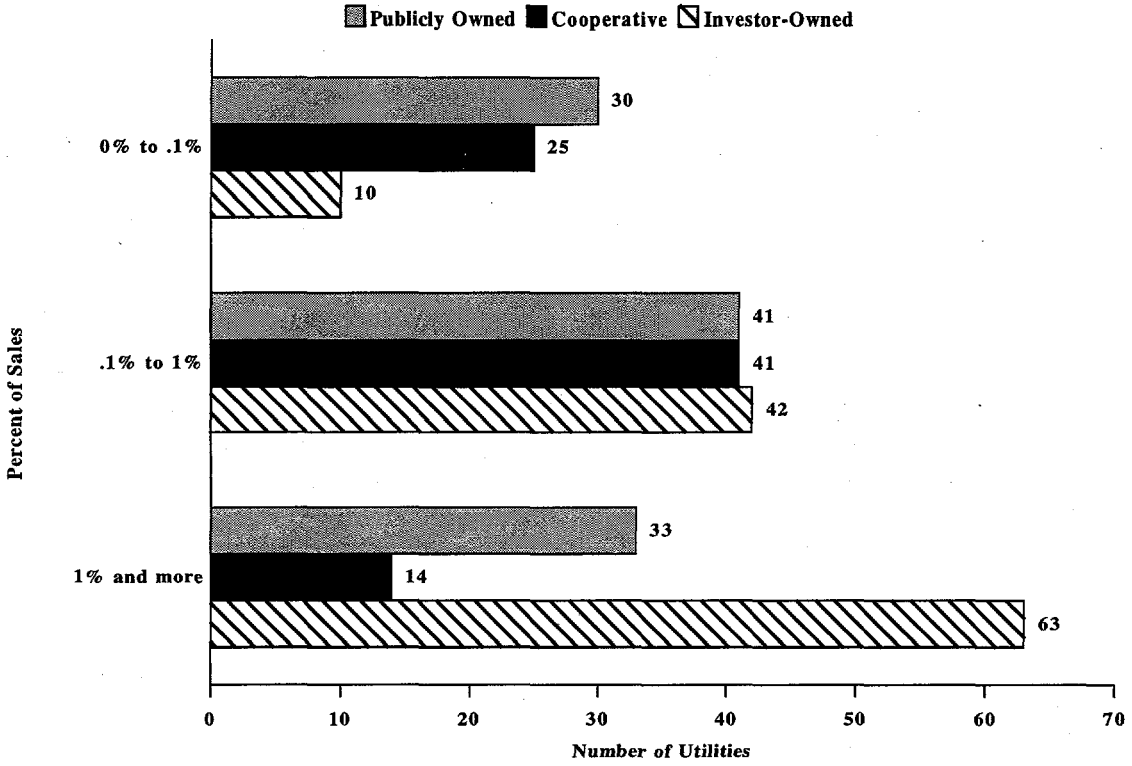
For 1995, not including ASCC, the greatest percentage of increase, 35.2 percent, in energy savings is predicted for the Mid-Continent Area Power Pool (MAPP) region. The greatest increase in kWh in both 1995 and 1999 is expected for the NPCC region. The East Central Area Reliability Coordination Agreement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

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

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

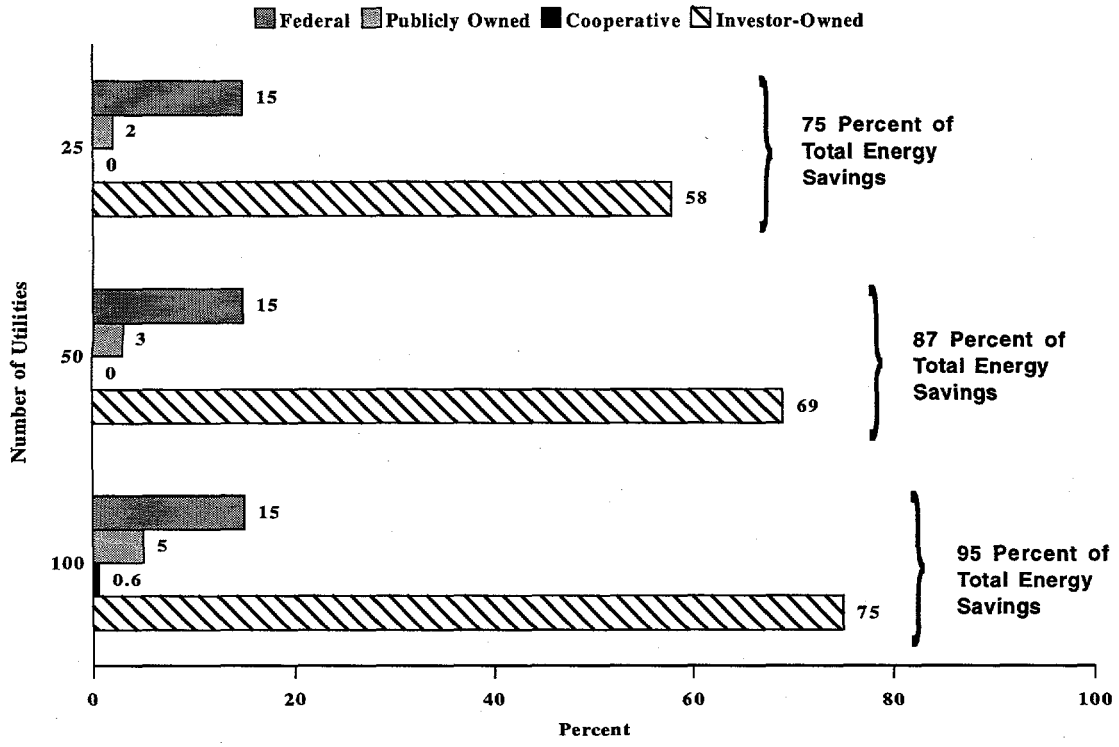
Notes: •Data are final. •Data are provided for electric utilities with sales to ultimate consumers or sales for resale greater than or equal to 120,000 megawatthours.
Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Figure 3. Energy Savings as a Percentage of Retail Sales by U.S. Electric Utilities with DSM Energy Savings Programs and by Class of Ownership, 1994



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, 1994



Note: 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, 1993, 1994, 1995, and 1999
(Million Kilowatthours)

Program Category	Historical Savings	
	1993	1994
Energy Efficiency	41,119	49,720
Direct Load Control	319	170
Interruptible Load	2,119	969
Other Load Management	223	190
Other Demand-Side Management	1,514	1,434
U.S. Total	**45,294**	**52,483**

	Projected Savings	
	1995	1999
Energy Efficiency	51,221	69,825
Direct Load Control	188	232
Interruptible Load	206	246
Other Load Management	389	612
Other Demand-Side Management	827	969
U.S. Total	**52,831**	**71,883**

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

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

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

[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, 1993 and 1994 (Million Kilowatthours)

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

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

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

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

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

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

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

[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, 1993 and 1994
(Million Kilowatthours)

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

[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, 1993, 1994, 1995, and 1999
(Million Kilowatthours)

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

See footnotes at end of table.

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

(Million Kilowatthours) (Continued)

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

* 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, 1994
(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	65	12	77
Cincinnati Gas & Electric Co	47	0	47
Cleveland Electric Illum Co	32	1	33
Columbus Southern Power Co	45	*	46
Consumers Power Co	350	0	350
Crawfordsville Elec Lgt&Pwr Co	*	0	*
Detroit Edison Co	170	*	170
East Kentucky Power Coop Inc	15	-13	2
Indiana Michigan Power Co	16	1	17
Indianapolis Power & Light Co	5	45	50
Kentucky Power Co	17	1	17
Kentucky Utilities Co	39	*	39
Kingsport Power Co	6	0	6
Lansing City of	*	0	*
Louisville Gas & Electric Co	0	3	3
Monongahela Power Co	236	0	236
Ohio Edison Co	103	*	103
Ohio Power Co	33	7	40
Owen Electric Coop Inc	1	0	1
Potomac Edison Co	390	0	390
PSI Energy Inc	274	1	275
Southern Indiana Gas & Elec Co	34	4	37
Toledo Edison Co	25	2	27
West Penn Power Co	271	-3	268
Wheeling Power Co	2	0	2
ECAR Total	**2,175**	**61**	**2,237**
ERCOT			
Austin City of	518	*	518
Brazos Electric Power Coop Inc	12	0	12
Bryan City of	9	*	9
Central Power & Light Co	139	60	198
College Station City of	1	0	1
Greenville Electric Util Sys	0	*	*
Houston Lighting & Power Co	186	-5	181
Johnson County Elec Coop Assn	5	0	5
Lower Colorado River Authority	123	0	123
Magic Valley Electric Coop Inc	2	0	2
San Bernard Electric Coop Inc	*	0	*
San Marcos City of	11	*	11
Texas Utilities Electric Co	2,532	0	2,532
Texas-New Mexico Power Co	41	51	93
Tri-County Electric Coop Inc	2	0	2
West Texas Utilities Co	8	45	53
ERCOT Total	**3,588**	**151**	**3,739**
MAAC			
A & N Electric Coop	1	0	1
Atlantic City Electric Co	63	2	65
Baltimore Gas & Electric Co	375	0	375
Bedford Rural Elec Coop Inc	0	*	*
Conowingo Power Co	2	2	4
Delmarva Power & Light Co	74	0	74
Easton Utilities Comm	*	0	*
Jersey Central Power&Light Co	118	0	118
Metropolitan Edison Co	62	20	82
Pennsylvania Electric Co	41	0	41
Pennsylvania Power & Light Co	19	6	25
Potomac Electric Power Co	691	125	817
Public Service Electric&Gas Co	144	0	144
PECO Energy Co	37	31	68
Southern Maryland El Coop Inc	8	0	8
Southwest Central R E C Corp	0	*	*
UGI Utilities Inc	*	0	*
MAAC Total	**1,634**	**186**	**1,820**

See footnotes at end of table.

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

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

See footnotes at end of table.

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

(Million Kilowatthours) (Continued)

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

(Million Kilowatthours) (Continued)

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

[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, 1994

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

See footnotes at end of table.

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

(Million Kilowatthours) (Continued)

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

See footnotes at end of table.

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

(Million Kilowatthours) (Continued)

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

See footnotes at end of table.

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

(Million Kilowatthours) (Continued)

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

See footnotes at end of table.

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

(Million Kilowatthours) (Continued)

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

See footnotes at end of table.

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

(Million Kilowatthours) (Continued)

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

* Value less than 0.5.

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

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

Peak Load Reduction

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

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

Annual Effects for Actual Peak Load Reduction

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

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

Utility forecasts indicated that investor-owned utilities are expected to increase actual peak load reductions by 12.1 percent in 1995 and to increase at an annual rate of 7.1 percent through 1999. In 1999, cooperatives are expected to provide 8.8 percent of actual peak load reductions and publicly owned utilities are expected to provide 8.1 percent (Table 12).[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 reduction rather than energy savings. For this reason, it is economically efficient for cooperatives to reduce their system peak load as much as possible (Figure 5).

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

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

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

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

Potential Peak Load Reductions

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

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

Interruptible load programs accounted for 45.2 percent of potential peak load reductions in 1994; energy efficiency accounted for 27.2 percent; direct load control for 20.7 percent; and other load management and other DSM programs, combined, accounted for 6.9 percent. The greatest percentage of increase occurred for other load management programs. For 1995, energy efficiency programs are forecasted to increase slightly, and all other programs are forecasted to decrease. For 1999, the greatest average annual increase, 9.4 percent, is predicted for energy efficiency programs. In 1999, the greatest share of potential peak load reduction is expected for interruptible load programs (Table 13).

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

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

Incremental Effects for Actual Peak Load Reduction

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

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

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

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

(Megawatts)

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

[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.

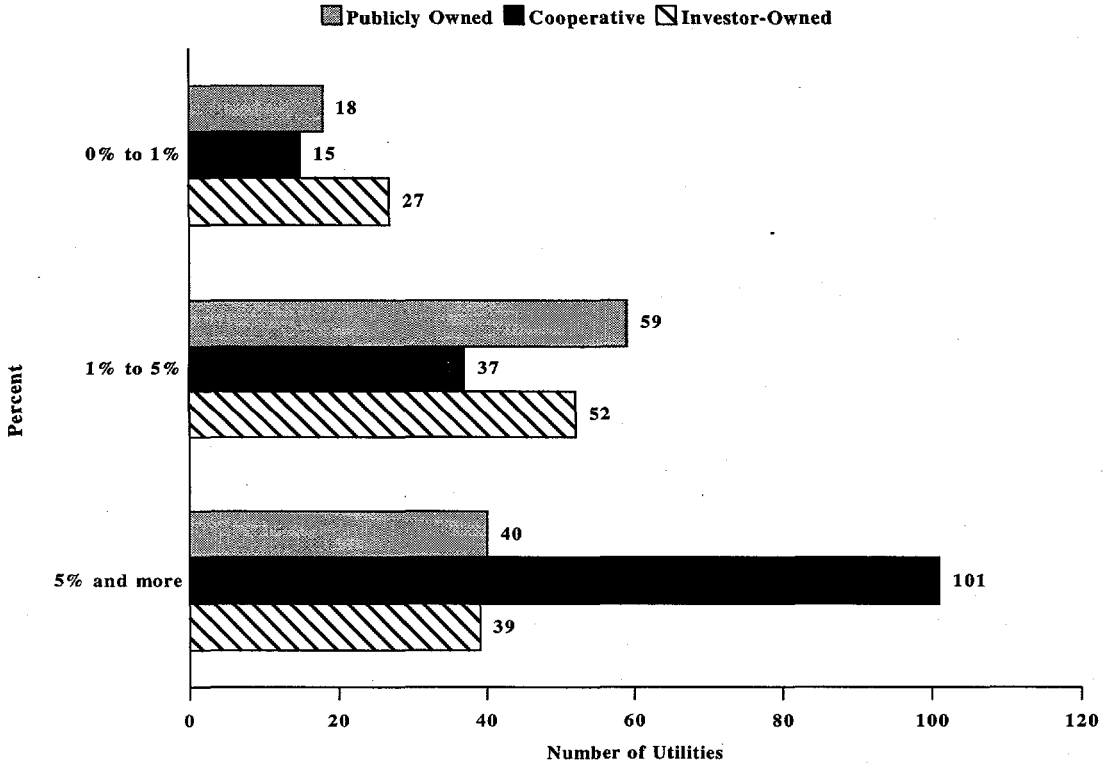
[2] Represents the sum of the potential peak load reductions attributable to direct load control, interruptible load, other load management, other demand-side management, including the actual peak load reduction achieved by energy efficiency programs.

NA=Data not available.

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

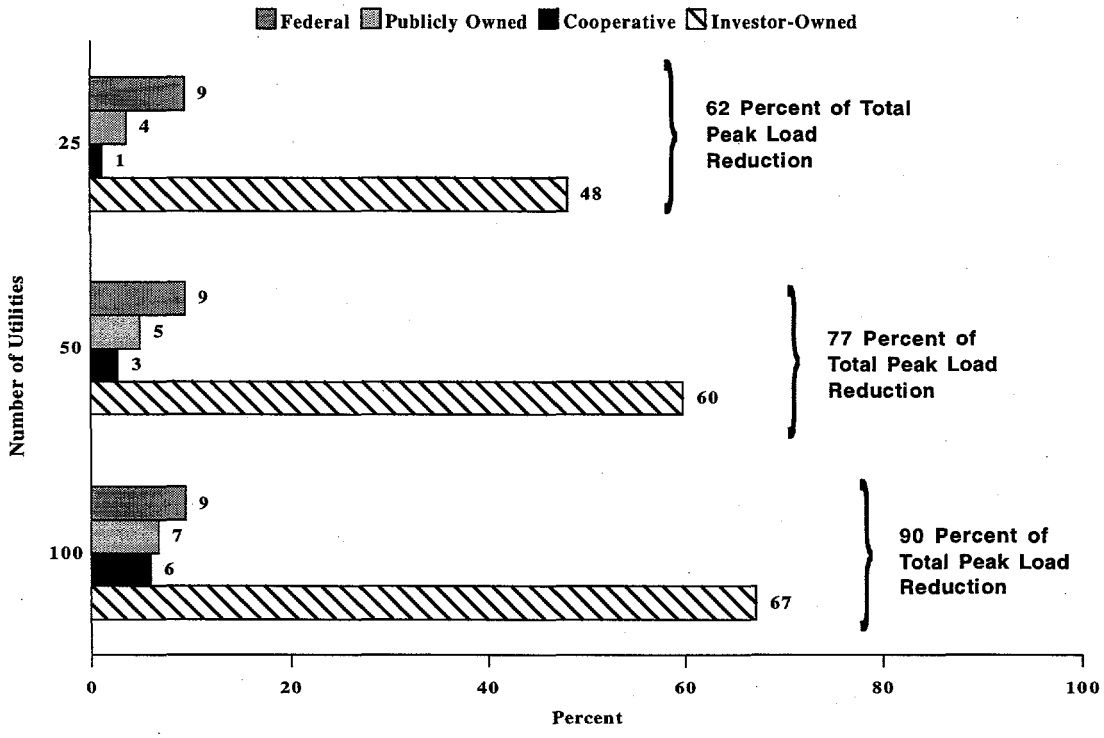
Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

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, 1994



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, 1994



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, 1993, 1994, 1995, and 1999
(Megawatts)

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

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

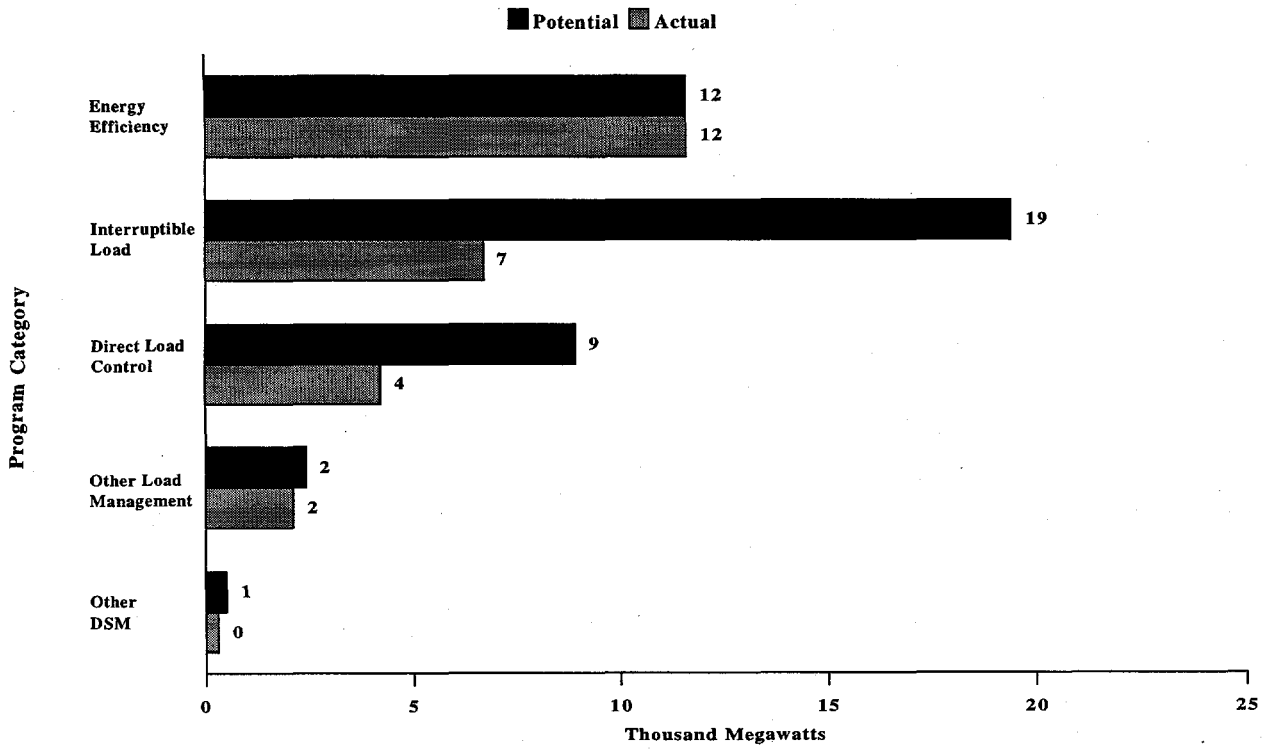
	Historical Potential Reductions	
	1993	1994
Energy Efficiency	10,368	11,662
Direct Load Control	8,266	8,890
Interruptible Load	18,235	19,384
Other Load Management	2,182	2,468
Other Demand-Side Management	457	513
U.S. Total	**39,508**	**42,917**

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

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

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

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



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, 1993 and 1994
(Megawatts)

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

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, 1993 and 1994
(Megawatts)

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

[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, 1993 and 1994
(Megawatts)

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

[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, 1993 and 1994
(Megawatts)

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

[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, 1993, 1994, 1995, and 1999

(Megawatts)

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

See footnotes at end of table.

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

(Megawatts) (Continued)

North American Electric Reliability Council Region and Hawaii / Electric Utility	Historical Reductions				Projected Reductions			
	1993		1994		1995		1999	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
MAAC								
A & N Electric Coop	1	1	1	1	1	2	1	2
Adams Electric Coop Inc	8	10	14	16	14	17	16	20
Allegheny Electric Coop Inc	—	—	15	23	0	27	0	28
Atlantic City Electric Co	94	94	64	94	105	105	137	137
Baltimore Gas & Electric Co	59	523	104	865	106	615	188	781
Bedford Rural Elec Coop Inc	2	2	2	2	2	2	2	2
Central Electric Coop Inc	4	4	4	4	3	5	4	6
Choptank Electric Coop Inc	5	10	5	11	6	12	7	14
Claverack Rural Elec Coop Inc	5	5	5	5	5	5	5	5
Conowingo Power Co	3	3	3	3	0	0	0	0
Delaware Electric Coop Inc	6	13	7	17	7	19	10	26
Delmarva Power & Light Co	162	246	248	256	16	122	28	150
Easton Utilities Comm	*	*	*	*	1	1	8	8
Jersey Central Power&Light Co	144	183	345	347	376	379	561	568
Metropolitan Edison Co	276	276	281	281	290	290	290	290
Northwestern Rural E C A Inc	5	6	6	6	7	7	8	8
Pennsylvania Electric Co	51	51	35	35	7	7	31	37
Pennsylvania Power & Light Co	167	167	9	299	298	298	306	306
Potomac Electric Power Co	177	375	272	509	594	594	904	904
Public Service Electric&Gas Co	244	368	283	315	425	425	948	948
PECO Energy Co	45	370	46	371	371	371	372	372
Somerset Rural Elec Coop Inc	1	2	2	3	2	3	2	3
Southern Maryland El Coop Inc	32	185	48	208	55	240	85	341
Southwest Central R E C Corp	0	*	*	*	1	1	2	3
Tri-County Rural Elec Coop Inc	—	—	1	1	0	*	0	2
Valley Rural Electric Coop Inc	3	4	2	5	*	2	*	3
MAAC Total	**1,493**	**2,699**	**1,803**	**3,679**	**2,692**	**3,548**	**3,918**	**4,967**
MAIN								
Boone Electric Coop	2	7	4	10	4	10	4	10
Central Illinois Light Co	62	62	70	70	0	82	6	124
Coles-Moultrie Electric Coop	8	8	7	7	9	9	10	10
Columbia City of	7	17	9	24	16	42	21	56
Commonwealth Edison Co	23	173	24	174	218	218	599	599
Corn Belt Electric Coop Inc	6	15	6	16	7	14	9	15
Cuivre River Electric Coop Inc	6	9	9	10	9	12	13	14
Eastern Illini Electric Coop	10	12	10	15	10	15	14	17
Illinois Power Co	5	166	0	170	0	170	0	179
Madison Gas & Electric Co	30	42	42	75	56	82	80	108
Manitowoc Public Utilities	2	2	2	2	1	1	1	1
Marshfield City of	1	1	1	1	1	2	4	7
Menard Electric Coop	0	*	0	*	*	*	*	*
Shelby Electric Coop Inc	8	8	8	8	11	11	14	14
Southeastern IL Elec Coop Inc	0	*	0	*	0	*	0	*
Southwestern Electric Coop Inc	25	50	13	21	11	22	13	26
Springfield City of	5	9	6	10	6	10	10	14
Tri-County Electric Coop Inc	12	12	12	12	12	12	16	17
Union Electric Co	145	182	140	185	140	185	253	298
Wayne-White Counties Elec Coop	0	12	0	12	10	13	10	13
Wisconsin Electric Power Co	336	435	619	744	318	612	406	778
Wisconsin Power & Light Co	54	196	63	244	79	265	121	323
Wisconsin Public Power Inc Sys	7	7	21	21	29	31	55	57
Wisconsin Public Service Corp	91	121	111	145	276	276	357	357
MAIN Total	**844**	**1,545**	**1,177**	**1,977**	**1,223**	**2,091**	**2,014**	**3,036**
MAPP(U.S.)								
Ames City of	*	6	1	1	2	2	4	4
Anoka City of	*	*	*	*	*	*	*	1
Austin City of	5	5	12	12	5	6	6	7
Barron Electric Coop	6	6	6	6	6	6	6	6
Beatrice City of	4	15	1	5	6	22	7	27
Cass County Electric Coop Inc	57	61	55	65	56	58	62	67
Cedar Falls City of	5	5	*	*	*	*	*	*
Central Iowa Power Coop	5	27	*	3	*	3	1	4

See footnotes at end of table.

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

(Megawatts) (Continued)

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

See footnotes at end of table.

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

(Megawatts) (Continued)

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

See footnotes at end of table.

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

(Megawatts) (Continued)

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

See footnotes at end of table.

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

(Megawatts) (Continued)

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

See footnotes at end of table.

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

(Megawatts) (Continued)

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

See footnotes at end of table.

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

(Megawatts) (Continued)

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

* 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, 1994

(Megawatts)

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

* 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, 1994
(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	6	1	7
Appalachian Power Co	Investor-Owned	24	*	86	0	110
Buckeye Power Inc	Cooperative	92	0	32	0	124
Cincinnati Gas & Electric Co	Investor-Owned	*	10	132	0	143
Cleveland Electric Illum Co	Investor-Owned	3	3	5	0	11
Columbus Southern Power Co	Investor-Owned	8	0	22	0	30
Consumers Power Co	Investor-Owned	6	26	35	0	68
Detroit Edison Co	Investor-Owned	12	9	16	0	37
East Kentucky Power Coop Inc	Cooperative	17	0	0	0	17
Indiana Michigan Power Co	Investor-Owned	5	1	55	0	61
Indianapolis Power & Light Co	Investor-Owned	1	5	12	0	18
Kentucky Power Co	Investor-Owned	6	0	21	0	27
Kentucky Utilities Co	Investor-Owned	11	*	0	0	11
Kingsport Power Co	Investor-Owned	2	0	0	0	2
Lansing City of	Publicly Owned	0	*	0	0	*
Louisville Gas & Electric Co	Investor-Owned	0	0	70	0	70
Midwest Electric Inc	Cooperative	7	0	3	0	10
Monongahela Power Co	Investor-Owned	23	28	34	0	85
Ohio Edison Co	Investor-Owned	5	6	5	0	16
Ohio Power Co	Investor-Owned	14	0	114	0	128
Owen Electric Coop Inc	Cooperative	1	*	*	0	1
Pennsylvania Power Co	Investor-Owned	0	0	40	0	40
Potomac Edison Co	Investor-Owned	77	37	67	0	180
PSI Energy Inc	Investor-Owned	16	49	39	4	107
South Central Power Co	Cooperative	21	3	4	0	27
Southern Indiana Gas & Elec Co	Investor-Owned	22	3	2	0	27
Toledo Edison Co	Investor-Owned	2	3	3	0	8
Wabash Valley Power Assn Inc	Cooperative	40	0	0	0	40
Wadsworth City of	Publicly Owned	0	0	8	0	8
West Penn Power Co	Investor-Owned	14	25	124	0	163
Wheeling Power Co	Investor-Owned	1	0	0	0	1
Wolverine Pwr Supply Coop Inc	Cooperative	8	0	0	0	8
ECAR Total		**438**	**207**	**934**	**4**	**1,583**
ERCOT						
Austin City of	Publicly Owned	166	70	0	0	236
Brazos Electric Power Coop Inc	Cooperative	3	*	0	0	3
Bryan City of	Publicly Owned	7	5	0	0	12
Central Power & Light Co	Investor-Owned	31	45	0	0	76
College Station City of	Publicly Owned	*	1	0	0	1
Denton City of	Publicly Owned	2	0	*	0	2
Garland City of	Publicly Owned	6	*	8	*	14
Greenville Electric Util Sys	Publicly Owned	0	0	4	0	4
Guadalupe Valley Elec Coop Inc	Cooperative	7	*	50	2	59
Houston Lighting & Power Co	Investor-Owned	44	26	3	0	73
Johnson County Elec Coop Assn	Cooperative	1	2	0	0	2
Lower Colorado River Authority	Publicly Owned	73	3	0	0	76
Magic Valley Electric Coop Inc	Cooperative	*	0	*	0	*
Medina Electric Coop Inc	Cooperative	0	0	7	0	7
San Bernard Electric Coop Inc	Cooperative	2	0	4	0	6
San Marcos City of	Publicly Owned	3	1	0	0	3
Texas Utilities Electric Co	Investor-Owned	543	690	0	0	1,233
Texas-New Mexico Power Co	Investor-Owned	12	16	0	0	28
Tri-County Electric Coop Inc	Cooperative	3	*	0	0	3
ERCOT Total		**902**	**858**	**76**	**2**	**1,838**
MAAC						
A & N Electric Coop	Cooperative	1	0	0	0	1
Adams Electric Coop Inc	Cooperative	7	0	6	0	14
Allegheny Electric Coop Inc	Cooperative	15	0	0	0	15
Atlantic City Electric Co	Investor-Owned	31	20	13	0	64
Baltimore Gas & Electric Co	Investor-Owned	25	79	0	0	104
Bedford Rural Elec Coop Inc	Cooperative	2	0	0	0	2
Central Electric Coop Inc	Cooperative	4	0	0	0	4
Choptank Electric Coop Inc	Cooperative	4	0	1	0	5
Claverack Rural Elec Coop Inc	Cooperative	5	0	0	0	5
Conowingo Power Co	Investor-Owned	3	0	0	0	3
Delaware Electric Coop Inc	Cooperative	7	0	0	0	7
Delmarva Power & Light Co	Investor-Owned	57	82	108	0	248

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

* 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 cost is the summation of direct utility costs and indirect utility costs.

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

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

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

In 1994, the 100 utilities that spent the most on DSM activities accounted for 93.9 percent of total DSM costs; the 50 utilities that spent the most on DSM accounted for 82.2 percent of the total costs; and the top 25 utilities accounted for 66.7 percent (Figure 9). These 100, 50, and 25 utilities that had the greatest costs for DSM programs represented 62.3, 45.6, and 29.7 percent, respectively, of total retail sales of electricity in the United States.

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

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

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

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

[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.

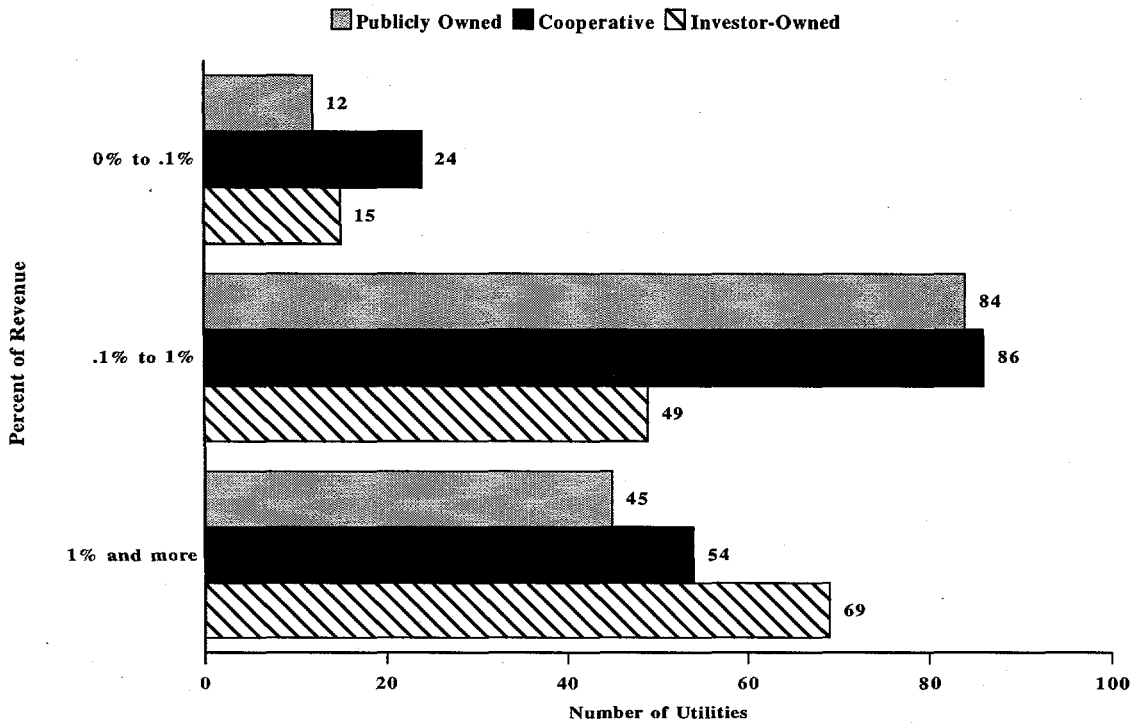
[11] Small utilities are not included in this section as they report only total utility cost and not a breakdown into direct and indirect costs.

[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.

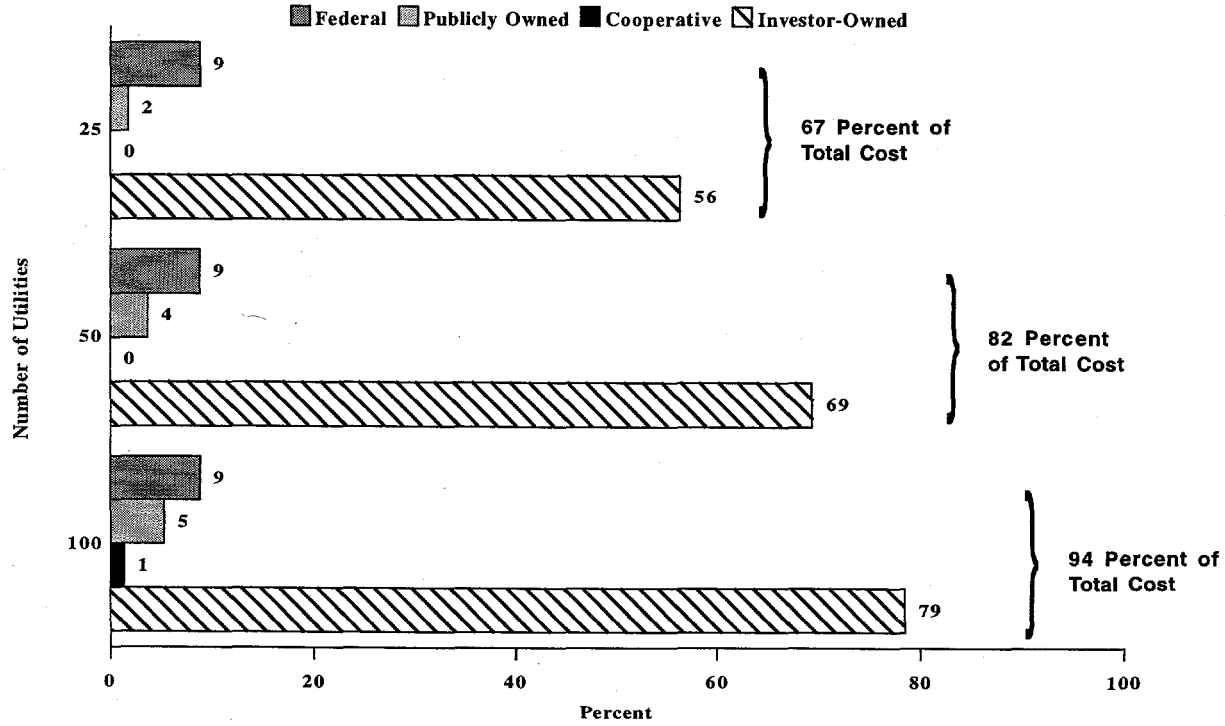
[14] Other costs include the indirect cost of DSM that cannot be attributed to any other cost category, particularly research and development.

Figure 8. U.S. Electric Utility DSM Program Costs as a Percentage of Retail Revenue by Number of Utilities with DSM Costs, 1994



Note: Graph includes only large utilities that reported DSM costs.
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, 1994



Note: No cooperatives were included in the top 25 or 50 utilities.
Sources: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

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

(Thousand Dollars)

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

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

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

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

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

See footnotes at end of table.

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

(Thousand Dollars) (Continued)

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

North American Electric Reliability Council Region and Hawaii / Electric Utility	Class of Ownership	Historical Costs		Projected Costs	
		1993	1994	1995	1999
NPCC(U.S.) (Continued)					
Central Vermont Pub Serv Corp	Investor-Owned	9,841	6,900	6,900	6,900
Chicopee City of	Publicly Owned	175	565	460	900
Citizens Utilities Co	Investor-Owned	0	1,902	2,368	2,244
Commonwealth Electric Co	Investor-Owned	4,475	4,956	3,673	3,673
Concord Electric Co	Investor-Owned	506	541	588	890
Connecticut Light & Power Co	Investor-Owned	41,190	34,768	36,662	37,497
Connecticut Valley Elec Co Inc	Investor-Owned	505	328	296	296
Consolidated Edison Co-NY Inc	Investor-Owned	125,073	99,358	72,522	72,322
Eastern Edison Co	Investor-Owned	7,541	1,437	1,856	1,487
Exeter & Hampton Electric Co	Investor-Owned	497	662	850	933
Fitchburg Gas & Elec Light Co	Investor-Owned	660	773	1,106	1,200
Granite State Electric Co	Investor-Owned	2,245	1,740	2,555	2,530
Green Mountain Power Corp	Investor-Owned	8,378	5,255	3,568	3,568
Hingham City of	Publicly Owned	28	108	231	135
Holyoke City of	Publicly Owned	33	33	33	33
Jamestown City of	Publicly Owned	120	120	175	250
Littleton Town of	Publicly Owned	63	9	15	17
Long Island Lighting Co	Investor-Owned	33,441	19,827	12,255	41,265
Maine Public Service Co	Investor-Owned	219	154	193	212
Massachusetts Electric Co	Investor-Owned	49,660	60,747	63,648	62,648
Massena Town of	Publicly Owned	15	15	108	28
Montaup Electric Co	Investor-Owned	12,157	14,258	12,481	11,086
Narragansett Electric Co	Investor-Owned	12,869	10,432	13,428	13,078
New England Power Co	Investor-Owned	2,927	8,171	8,496	8,496
New Hampshire Elec Coop Inc	Cooperative	1,100	668	1,735	2,090
New York State Elec & Gas Corp	Investor-Owned	47,690	14,369	12,890	12,890
Newport Electric Corp	Investor-Owned	1,612	—	—	—
Niagara Mohawk Power Corp	Investor-Owned	42,105	41,429	25,022	15,222
North Attleborough Town of	Publicly Owned	—	143	489	590
Norwood City of	Publicly Owned	234	301	301	425
Omya Inc	Investor-Owned	121	1	13	6
Orange & Rockland Utils Inc	Investor-Owned	22,077	13,432	10,311	6,169
Power Authority of State of NY	Publicly Owned	10,315	6,825	10,400	3,887
Public Service Co of NH	Investor-Owned	434	1,159	2,730	6,616
Reading Town of	Publicly Owned	155	155	163	198
Rochester Gas & Electric Corp	Investor-Owned	10,087	8,498	8,708	7,995
Shrewsbury Town of	Publicly Owned	275	178	540	540
Taunton City of	Publicly Owned	378	593	472	230
United Illuminating Co	Investor-Owned	13,964	12,188	11,750	9,000
Vermont Electric Coop Inc	Cooperative	—	0	225	700
Wellesley Town of	Publicly Owned	18	18	60	150
Western Massachusetts Elec Co	Investor-Owned	16,920	11,088	16,187	9,272
NPCC(U.S.) Total		**565,145**	**462,668**	**408,361**	**409,050**
SERC					
Aiken Electric Coop Inc	Cooperative	725	372	276	343
Alabama Electric Coop Inc	Cooperative	892	1,016	1,082	1,082
Alabama Municipal Elec Auth	Publicly Owned	—	329	460	55
Alabama Power Co	Investor-Owned	22,950	31,315	36,631	42,406
Albemarle City of	Publicly Owned	177	93	100	178
Altamaha Electric Member Corp	Cooperative	9	10	13	18
Amicalola Electric Member Corp	Cooperative	50	66	80	117
Berkeley Electric Coop Inc	Cooperative	675	675	705	815
Black River Electric Coop Inc	Cooperative	443	219	225	335
Blue Ridge Elec Member Corp	Cooperative	757	—	—	—
Brunswick Electric Member Corp	Cooperative	714	742	780	900
BARC Electric Coop Inc	Cooperative	98	98	98	89
Canoochee Electric Member Corp	Cooperative	24	24	24	25
Carolina Power & Light Co	Investor-Owned	42,400	53,300	57,000	57,000
Carroll Electric Member Corp	Cooperative	85	98	100	112
Carteret-Craven El Member Corp	Cooperative	303	—	—	—
Central Electric Member Corp	Cooperative	79	—	—	—
Central Electric Pwr Coop Inc	Cooperative	2,184	—	—	—
Central Florida Elec Coop Inc	Cooperative	16	18	19	22
Central Georgia El Member Corp	Cooperative	119	130	146	198
Choctawhatche Elec Coop Inc	Cooperative	—	262	278	278
Clay Electric Coop Inc	Cooperative	2,730	2,865	3,102	3,754
Coast Electric Power Assn	Cooperative	55	—	—	—

See footnotes at end of table.

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

(Thousand Dollars) (Continued)

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

(Thousand Dollars) (Continued)

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

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 23. U.S. Electric Utility DSM Program Direct Utility Costs by North American Electric Reliability Council Region and Hawaii by DSM Program Category, 1994

(Thousand Dollars)

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

(Thousand Dollars) (Continued)

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

See footnotes at end of table.

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

(Thousand Dollars) (Continued)

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

See footnotes at end of table.

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

(Thousand Dollars) (Continued)

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

See footnotes at end of table.

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

(Thousand Dollars) (Continued)

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

See footnotes at end of table.

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

(Thousand Dollars) (Continued)

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

[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, 1994

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

See footnotes at end of table.

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

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

See footnotes at end of table.

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

(Thousand Dollars) (Continued)

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

See footnotes at end of table.

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

(Thousand Dollars) (Continued)

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

See footnotes at end of table.

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

(Thousand Dollars) (Continued)

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

[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. Demand-side management data collected on Form EIA-861 are estimated by electric utilities based on engineering data, statistical analysis, or other estimation methods. The form was revised for the 1993 data collection to collect information on estimation methodologies used by utilities to derive DSM data and the methods used for verification of the estimated energy effects.

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

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

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

Respondents are telephoned to obtain clarification of reported data and to obtain missing data.

Voltage Reduction

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

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

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

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

Quality of Data

The Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF) is responsible for routine data improvement and quality assurance activities. All operations in this office are done in accordance with formal standards established by the EIA. Data improvement efforts include verification of data-keyed input by automatic computerized methods, editing by subject matter specialists, and follow up on nonrespondents. The CNEAF office supports the quality assurance efforts of the data collectors by providing advisory reviews of the structure of information requirements and of proposed designs for new and revised data collection forms and systems. Once implemented, the actual performance of working data collection systems is also validated. Computerized respondent data files are checked to identify those who fail to respond to the survey. By law, nonrespondents may be fined or otherwise penalized for not filing a mandatory EIA data form. Before invoking the law, the EIA tries to obtain the required information by encouraging cooperation of nonrespondents.

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

Data Editing System

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

Confidentiality of the Data

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

Rounding Rules for Data

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

Percent Difference Calculation

The following formula is used to calculate percent differences.

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

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

CNEAF Data Revision and Policy

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

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

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

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

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

- **Electric Power Annual Volume II 1994**

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

Use of the Glossary

The terms in the glossary have been defined for general use. Restrictions on the definitions as used in these data collection systems are included in each definition when necessary to define the terms as they are used in this report.

Acronyms and Abbreviations

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

DOE - Department of Energy

DSM - Demand-Side Management

EIA - Energy Information Administration

EPACT - Energy Policy Act of 1992

GWh - Gigawatthour

HVAC - Heating, Ventilation, and Air Conditioning

IRP - Integrated Resource Planning

kW - Kilowatt

kWh - Kilowatthour

MW - Megawatt

MWh - Megawatthour

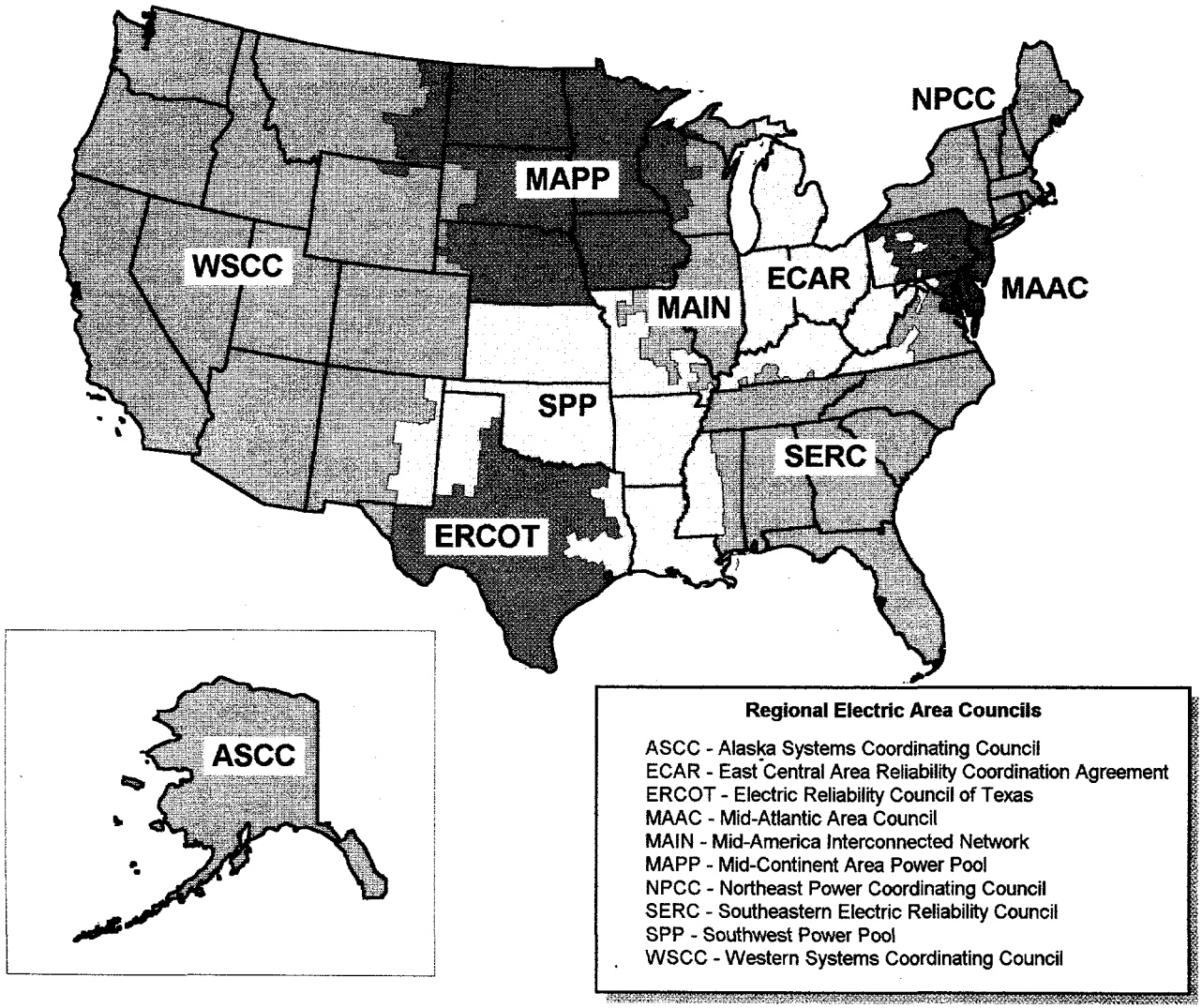
NERC - North American Electric Reliability Council

The NERC regions are:
ASCC - Alaskan System Coordination Council
ECAR - East Central Area Reliability Coordination Agreement
ERCOT - Electric Reliability Council of Texas
MAIN - Mid-America Interconnected Network
MAAC - Mid-Atlantic Area Council
MAPP - Mid-Continent Area Power Pool
NPCC - Northeast Power Coordinating Council
SERC - Southeastern Electric Reliability Council
SPP - Southwest Power Pool
WSCC - Western Systems Coordinating Council

NTIS - National Technical Information Service

TOU - Time-of-Use

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



Source: Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels.

Obtaining Copies of Data

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

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

The data for 1992, 1993, and 1994 filed on the Form EIA-861 are also available on the Internet in compressed format through FTP at ftp.fedworld.gov, or through use of a world-wide-web browser such as Mosaic at www.fedworld.gov, in the /pub/energy 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 Reduction. The actual reduction in annual peak load (measured in kilowatts) achieved by consumers that participate in a utility DSM program. It reflects the real changes in the demand for electricity resulting from a utility DSM program that is in effect at the same time the utility experiences its annual peak load, as opposed to the installed peak load reduction capability (i.e., Potential Peak Load Reduction). It should account for the regular cycling of energy efficient units during the period of annual peak load.

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

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

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

Average Revenue per Kilowatthour. The average revenue per kilowatthour of electricity sold by sector (residential, commercial, industrial, or other) and geographic area (State, Census division, and National), is calculated by dividing the total monthly revenue by the corresponding total monthly sales for each sector and geographic area.

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

Baseload Capacity. The generating equipment normally operated to serve loads on an around-the-clock basis.

Baseload Plant. A plant, usually housing high-efficiency steam-electric units, which is normally operated to take all or part of the minimum load of a system, and which consequently produces electricity at an essentially constant rate and runs continuously. These units are operated to maximize system mechanical and thermal efficiency and minimize system operating costs.

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

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

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

Cogenerator. A generating facility that produces electricity and another form of useful thermal energy (such as heat or steam), used for industrial, commercial, heating, or cooling purposes. To receive status as a qualifying facility (QF) under the Public Utility Regulatory Policies Act (PURPA), the facility must produce electric energy and "another form of useful thermal energy through the sequential use of energy," and meet certain ownership, operating, and efficiency criteria established by the Federal Energy Regulatory

Commission (FERC). (See the code of Federal Regulations, Title 18, Part 292.)

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

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

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

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

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

Cooperative Electric Utility. An electric utility legally established to be owned by and operated for the benefit of those using its service. The utility company will generate, transmit, and/or distribute supplies of electric energy to a specified area not being serviced by another utility. Such ventures are generally exempt from Federal income tax laws. Most electric cooperatives have been initially financed by the Rural Electrification Administration, U.S. Department of Agriculture.

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

Demand (Electric). The rate at which electric energy is delivered to or by a system, part of a system, or piece of equipment, at a given instant or averaged over any designated period of time.

Demand-Side Management. The planning, implementation, and monitoring of utility activities designed to encourage consumers to modify patterns of electricity usage, including the timing and level of electricity demand. It refers only to energy and load-shape modifying activities that are undertaken in response to utility-administered programs. It does not refer to energy and load-shape changes arising from the normal operation of the marketplace or from government-mandated energy-efficiency standards. Demand-Side Management (DSM) covers the 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 non-participants, 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 (Electric). The amount of electric power delivered or required at any specific point or points on a system. The requirement originates at the energy-consuming equipment of the consumers.

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

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

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

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

Megawatt (MW). One million watts.

Megawatthour (MWh). One million watthours.

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

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

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

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

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

Noncoincidental Peak Load. The sum of two or more peak loads on individual systems that do not occur in the same time interval. Meaningful only when considering loads within a limited period of time, such as a day, week, month, a heating or cooling season, and usually for not more than 1 year.

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

ASCC - Alaskan System Coordination Council

ECAR - East Central Area Reliability Coordination Agreement

ERCOT - Electric Reliability Council of Texas

MAIN - Mid-America Interconnected Network

MAAC - Mid-Atlantic Area Council

MAPP - Mid-Continent Area Power Pool

NPCC - Northeast Power Coordinating Council

SERC - Southeastern Electric Reliability Council

SPP - Southwest Power Pool

WSCC - Western Systems Coordinating Council

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

Other DSM Programs. A residual category to capture the effects of DSM programs that cannot be meaningfully included in any of the program categories listed and defined herein. The energy effects attributable to this category should be the net effects of all the residual programs. Programs that promote consumer's substitution of electricity by other energy types should be included in Other DSM Programs. Also, self-generation should be included in Other DSM Programs to the extent that it is not accounted for as backup generation in Other Load Management or Interruptible Load categories.

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

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

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

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

Peaking Capacity. Capacity of generating equipment normally reserved for operation during the hours of highest daily, weekly, or seasonal loads. Some generating equipment may be operated at certain times as peaking capacity and at other times to serve loads on an around-the-clock basis.

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

Planned Generator. A proposal by a company to install electric generating equipment at an existing or planned facility or site. The proposal is based on the

owner having obtained (1) all environmental and regulatory approvals, (2) a signed contract for the electric energy, or (3) financial closure for the facility.

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

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

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

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

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

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

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

Rate Base. The value of property upon which a utility is permitted to earn a specified rate of return as established by a regulatory authority. The rate base generally represents the value of property used by the utility in providing service and may be calculated by any one or a combination of the following accounting methods: fair value, prudent investment, reproduction cost, or original cost. Depending on which method is used, the rate base includes cash, working capital, materials and supplies, and deductions for accumulated provisions for depreciation, contributions in aid of construction, customer advances for construction, accumulated deferred income taxes, and accumulated deferred investment tax credits.

Ratemaking Authority. A utility commission's legal authority to fix, modify, approve, or disapprove rates, as determined by the powers given the commission by a State or Federal legislature.

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

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

Residential. The residential sector is defined as private household establishments which consume energy primarily for space heating, water heating, air conditioning, lighting, refrigeration, cooking and clothes drying. The classification of an individual consumer's account, where the use is both residential and commercial, is based on principal use.

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

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

Sales. The amount of kilowatthours sold in a given period of time; usually grouped by classes of service, such as residential, commercial, industrial, and other. Other sales include public street and highway lighting, other sales to public authorities and railways, and interdepartmental sales.

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

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

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

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

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

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

Total DSM Programs. Refers to the total net effects of all the utility's DSM programs. For the purpose of this survey, it is the sum of the effects for Energy Efficiency, Direct Load Control, Interruptible Load,

Other Load Management, Other DSM Programs, and Load Building. Net growth in energy or load effects should be reported as a negative number, shown with a minus sign.

Total Nonutility Cost. Refers to total cash expenditures incurred by consumers and trade allies that are associated with participation in a DSM program, but that are not reimbursed by the utility. The nonutility expenditures should include only those additional costs necessary to purchase or install an efficient measure relative to a less efficient one. Costs are to be reported in nominal dollars in the year in which they are incurred, regardless of when the actual effects occur. To the extent possible, respondents are asked to provide the best estimate of nonutility costs if actual costs are unavailable.

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

Transmission. The movement or transfer of electric energy over an interconnected group of lines and associated equipment between points of supply and points at which it is transformed for delivery to consumers, or is delivered to other electric systems. Transmission is considered to end when the energy is transformed for distribution to the consumer.

Transmission System (Electric). An interconnected group of electric transmission lines and associated equipment for moving or transferring electric energy in bulk between points of supply and points at which it is transformed for delivery over the distribution system lines to consumers, or is delivered to other electric systems.

Uniform System of Accounts. Prescribed financial rules and regulations established by the Federal Energy Regulatory Commission for utilities subject to its jurisdiction under the authority granted by the Federal Power Act.

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

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

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

Watt. The electrical unit of power. The rate of energy transfer equivalent to 1 ampere flowing under a pressure of 1 volt at unity power factor.

Watthour (Wh). An electrical energy unit of measure equal to 1 watt of power supplied to, or taken from, an electric circuit steadily for 1 hour.

Wheeling Service. The movement of electricity from one system to another over transmission facilities of intervening systems. Wheeling service contracts can be established between two or more systems.

Wholesale Sales. Energy supplied to other electric utilities, cooperatives, 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.

*U.S. G.P.O.:1996-404-680:20019

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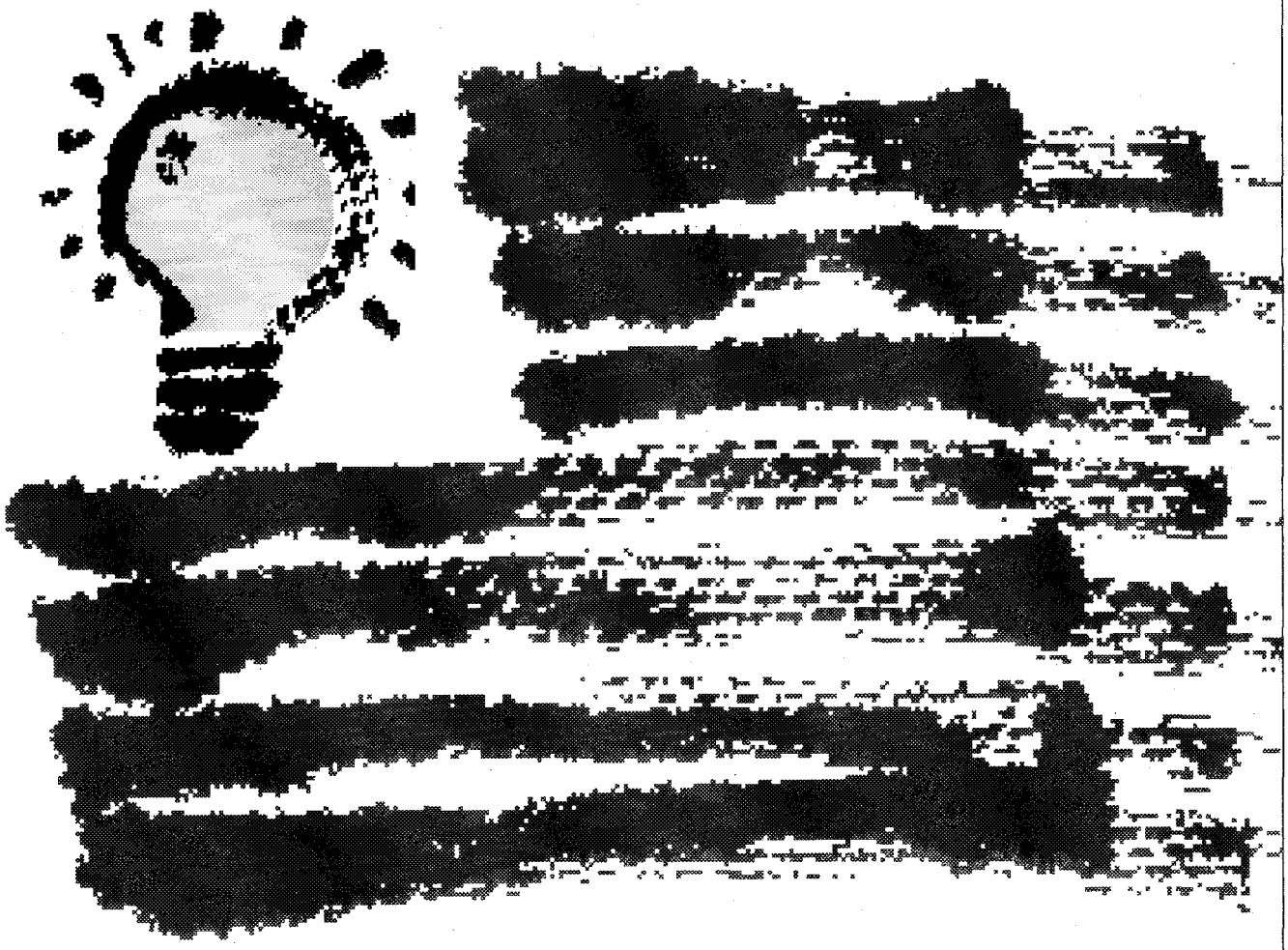

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