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# Electric Power Monthly

## June 1999

With Data for March 1999



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Cover Photo:
Lightning, the raw form of electricity, provides a backdrop for the harnessed form carried over transmission lines.


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



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## DISCLAIMER

# Preface

The Electric Power Monthly (EPM) presents monthly electricity statistics for a wide audience including Congress, Federal and State agencies, the electric utility industry, and the general public. The purpose of this publication is to provide energy decisionmakers with accurate and timely information that may be used in forming various perspectives on electric issues that lie ahead. The EIA collected the information in this report to fulfill its data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (Public Law 93-275) as amended.

### *Background*

The Electric Power Division; Office of Coal, Nuclear, Electric and Alternate Fuels, Energy Information Administration (EIA), Department of Energy prepares the EPM. This publication provides monthly statistics at the State, Census division, and U.S. levels for net generation, fossil fuel consumption and stocks, quantity and quality of fossil fuels, cost of fossil fuels, electricity retail sales, associated revenue, and average revenue per kilowatthour of electricity sold. In addition, data on net generation, fuel consumption, fuel stocks, quantity and cost of fossil fuels are also displayed for the North American Electric Reliability Council (NERC) regions.

The EIA publishes statistics in the *EPM* on net generation by energy source; consumption, stocks, quantity, quality, and cost of fossil fuels; and capability of new generating units by company and plant.

### *Data Sources*

The *EPM* contains information from seven data sources: Form EIA-759, "Monthly Power Plant Report"; Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"; Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions"; Form EIA-900, "Monthly Nonutility Power Report"; Form EIA-861, "Annual Electric Utility Report"; Form EIA-860A, "Annual Electric Generator Report – Utility;" and Form EIA-860B, "Annual Electric Generator Report – Nonutility." Copies of these forms and their instructions may be obtained from the National Energy Information Center. A detailed description of these forms is in Appendix B, "Technical Notes."

# Office of Coal, Nuclear, Electric and Alternate Fuels
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*(as of June 1999)*

| | Internet | | | | |
|---|---|---|---|---|---|
| | Portable Document Format (PDF) | Executable Data Files | Hypertext Markup Language (HTML) | CD-ROM | Diskette |
| **Surveys:** | | | | | |
| Form EIA-412: Annual Report of Public Electric Utilities | | X | | | X |
| Form EIA-759: Monthly Power Plant Report | | X | | X | X |
| Form EIA-767: Steam-Electric Operation and Design Report | | X | | | X |
| Form EIA-826: Monthly Electric Utility Sales and Revenue Report with State Distributions | | X | | X | X |
| Form EIA-860: Annual Electric Generator Report | | X | | X | X |
| Form EIA-861: Annual Electric Utility Report | X | X | | X | X |
| FERC Form 1: Annual Report of Major Electric Utilities, Licensees, and Others | | X | | | X |
| FERC Form 423: Monthly Report of Cost and Quality of Fuels for Electric Plants | | X | | | X |
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| Financial Statistics of Major U.S. Publicly Owned Electric Utilities | X | | | X | |

Note: If you have any questions and/or need additional information, please contact the National Energy Information Center at (202) 586-8800.

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# Monthly Update

## Utility Generation and Retail Sales–March 1999

**Generation.** Total U.S. net generation of electricity was 260 billion kilowatthours, 1 percent above the amount reported in March 1998. The energy source with the largest kilowatthour increase in generation compared with March of last year was nuclear-powered plants (higher by 5 billion kilowatthours). Electricity generated from gas was also above the amount reported during the same period last year, higher by 6 percent.

**Sales.** Total sales of electricity to ultimate consumers in the United States 257 billion kilowatthours, 7 billion kilowatthours or 3 percent higher than the level reported at this time in 1998. Compared with March 1998, retail sales of electricity in all the major end-use sectors increased. The residential sector had sales of 89 billion kilowatthours, 4 percent higher than in March 1998. The commercial sector sales increased by 4 percent while sales in the industrial sector increased by 1 percent compared with March 1998.

## Utility Fuel Receipts, Costs, and Quality–February 1999

**Coal.** Receipts of coal at electric utilities totaled 74 million short tons, up 4 million short tons from receipts reported in February 1998. With consumption of coal running below the level of February 1998, due in-part to warmer-than-normal weather, coal stocks rose 8 million short tons to the 128-million-short-ton level. This was the highest end-of-February stock level since 1993. A 12-percent increase in nuclear generation coupled with a significant increases in oil and gas-fired generation also reduced demand for coal-fired generation.

**Petroleum.** Receipts of petroleum totaled nearly 10 million barrels, up from 9 million barrels in February 1998. Higher receipts were due in-part to a substantial decrease in the price of petroleum over the past several months. The average delivered cost of petroleum to electric utilities in February 1999 was $1.72 per million Btu, down from $2.14 per million Btu in February 1998. This was the lowest average monthly cost for petroleum since January 1974. While low prices made petroleum attractive for baseload generation, it still only accounted for 4 percent of total Btu's received during the month.

**Gas.** Receipts of gas totaled 138 billion cubic feet (Bcf), up from the 125 Bcf reported in February 1998. The average cost of gas delivered to electric utilities was $2.22 per million Btu, compared to $2.53 per million Btu reported in February 1998. Receipts of gas to California showed a 20-percent decrease, due in-part to the nonreporting status of several plants owned by Southern California Edison Company (SCE) and Pacific Gas & Electric Company (PG&E). During 1998, several SCE and PG&E plants were sold and are now operating as nonutility power plants. A 99-percent decrease in gas receipts occurred in the New England Census division, due in-part to the sale and reclassification of several electric plants as nonutility plants. Receipts of gas to the West South Central Census division were 80 Bcf, up from 61 Bcf in February 1998. This increase in the use of gas was due in-part to a reduction in nuclear and coal-fired generation.

# Electricity Supply and Demand Forecast for 1999[1]

The EIA prepares a short-term forecast for electricity that is published in the *Short-Term Energy Outlook*. This page provides that forecast for the current year along with explanations behind the forecast.[2]

- Electricity demand in 1999 is projected to grow in each of the five demand sectors. The overall total for 1999 is forecast at 1.1 percent above 1998 levels, which is lower than the 3.7 percent growth rate experienced in 1998.
- Residential demand for electricity in 1999 is projected to increase by 1.2 percent over 1998. This is due to the expected second and third quarter increase in cooling demand over the same period in 1998, when temperatures were milder than normal.
- Commercial sector demand is forecast to rise by 1.7 percent in 1999 and can be attributed mainly to expanding employment and favorable economic conditions. Industrial demand is projected to grow by 0.2 percent in 1999 reflecting the continuing growth in industrial output.
- Electricity generation at U.S. utilities is expected to grow at the rate of 1.2 percent, which is 1.8 percent below the growth rate experienced in 1998. The nonutility generation growth rate is projected to remain steady at 1.5 percent.
- Assuming that weather will be normal in 1999, hydropower generation by electric utilities is expected to decrease by 8.1 percent from the abnormally high levels seen the past 3 years. These levels resulted from increased availability of hydroelectric generation due to high runoff conditions in the Pacific Northwest, created by above-average rainfall in 1996 and 1997.
- Nuclear power generation is expected to increase by 0.2 percent as it continues to recover from the negative growth seen in 1997, as many of the downed nuclear plants go back on line (but not back up to peak 1996 levels).
- Net imports of electricity from Canada are forecast to be 8.7 percent above last year's level. This ends the downward trend which occurred each year (except in 1996) after the record high levels of imports seen in 1994.

[1]Energy Information Administration, *Short-Term Energy Outlook: 1st Quarter 1999*, DOE/EIA-0202 (99/1Q) (Washington, DC, January 1999).

[2]Further questions on this section may be directed to Rebecca McNerney at 202-426-1251 or via Internet at rmcnerne@eia.doe.gov.

**Electricity Supply and Demand**
(Billion Kilowatthours)

| | 1999 | | | | |
|---|---|---|---|---|---|
| | 1st | 2nd | 3rd | 4th | Year |
| **Supply** | | | | | |
| Net Utility Generation | | | | | |
| Coal | *455.5* | *436.1* | *492.8* | *461.2* | *1845.7* |
| Petroleum | *32.9* | *30.7* | *35.9* | *27.9* | *127.4* |
| Natural Gas | *51.3* | *85.8* | *118.4* | *61.7* | *317.3* |
| Nuclear | *174.3* | *154.5* | *181.4* | *163.5* | *673.6* |
| Hydroelectric | *76.5* | *77.9* | *65.6* | *64.0* | *284.0* |
| Geothermal and Other[a] | *1.8* | *1.7* | *1.7* | *1.7* | *6.9* |
| Subtotal | *792.3* | *786.7* | *895.9* | *780.1* | *3255.0* |
| Nonutility Generation[b] | | | | | |
| Coal | *15.1* | *14.4* | *15.7* | *17.6* | *62.8* |
| Petroleum | *4.0* | *3.9* | *4.2* | *4.7* | *16.8* |
| Natural Gas | *50.9* | *48.7* | *53.0* | *59.4* | *212.0* |
| Other Gaseous Fuels[c] | *2.9* | *2.8* | *3.1* | *3.4* | *12.2* |
| Hydroelectric | *4.3* | *4.1* | *4.5* | *5.0* | *18.0* |
| Geothermal and Other[d] | *17.8* | *17.0* | *18.5* | *20.8* | *74.1* |
| Subtotal | *95.0* | *91.0* | *99.1* | *110.9* | *396.0* |
| Total Generation | *887.3* | *877.7* | *994.9* | *891.0* | *3651.0* |
| Net Imports | *6.8* | *7.9* | *11.2* | *7.8* | *33.7* |
| Total Supply | *894.1* | *885.6* | *1006.1* | *898.8* | *3684.6* |
| Losses and Unaccounted for[e] | *47.3* | *73.5* | *64.3* | *65.7* | *250.8* |
| **Demand** | | | | | |
| Electric Utility Sales | | | | | |
| Residential | *298.5* | *253.3* | *329.6* | *264.7* | *1146.2* |
| Commercial | *229.3* | *231.9* | *269.3* | *233.4* | *964.0* |
| Industrial | *253.9* | *264.0* | *274.1* | *263.1* | *1055.0* |
| Other | *25.2* | *24.7* | *27.2* | *25.4* | *102.6* |
| Subtotal | *807.0* | *773.9* | *900.3* | *786.6* | *3267.8* |
| Nonutility Gener. for Own Use[b] | *39.8* | *38.1* | *41.5* | *46.5* | *166.0* |
| Total Demand | *846.8* | *812.1* | *941.8* | *833.1* | *3433.8* |
| Memo: | | | | | |
| Nonutility Sales to Electric Utilities[b] | *55.2* | *52.9* | *57.5* | *64.4* | *230.1* |

[a]Other includes generation from wind, wood, waste, and solar sources.
[b]Electricity from nonutility sources, including cogenerators and small power producers. Quarterly numbers for nonutility net sales, own use, and generation by fuel source supplied by the Office of Coal, Nuclear, Electric and Alternate Fuels, Energy Information Administration (EIA), based on annual data reported to EIA on Form EIA-867, "Annual Nonutility Power Producer Report."
[c]Includes refinery still gas and other process or waste gases, and liquefied petroleum gases.
[d]Includes geothermal, solar, wind, wood, waste, nuclear, hydrogen, sulfur, batteries, chemicals and spent sulfite liquor.
[e]Balancing item, mainly transmission and distribution losses.

Notes: •Minor discrepancies with other EIA published historical data are due to rounding. •Historical data are printed in bold, forecasts are in italic. •The forecasts were generated by simulation of the Short-Term Integrated Forecasting System. •Mid World Oil Price Case.

Sources: **Historical data:** Energy Information Administration, latest data available from EIA databases supporting the following reports: *Electric Power Monthly*, DOE/EIA-0226 and *Monthly Energy Review*, DOE/EIA-0035; **Projections:** Energy Information Administration, Short-Term Integrated Forecasting System database, and Office of Coal, Nuclear, Electric and Alternate Fuels.

## Heating Degree-Days by Census Division, March 1999

| Census Division | Number of Degree-Days | | | Percent Change | |
|---|---|---|---|---|---|
| | *Normal*[*] | 1998 | 1999 | Normal to 1999 | 1998 to 1999 |
| New England | *919* | 832 | 880 | -4.2 | 5.8 |
| Middle Atlantic | *821* | 746 | 843 | 2.7 | 13.0 |
| East North Central | *868* | 822 | 928 | 6.9 | 12.9 |
| West North Central | *865* | 935 | 833 | -3.7 | -10.9 |
| South Atlantic | *379* | 416 | 451 | 19.0 | 8.4 |
| East South Central | *455* | 491 | 536 | 17.8 | 9.2 |
| West South Central | *277* | 319 | 238 | -14.1 | -25.4 |
| Mountain | *677* | 689 | 582 | -14.0 | -15.5 |
| Pacific Contiguous | *432* | 426 | 512 | 18.5 | 20.2 |
| **U.S. Average** | ***611*** | **605** | **641** | **4.9** | **6.0** |

[*] "Normal" is based on calculations using temperature data from 1961 through 1990.

**NM** = Not meaningful (normal is less than 100 or ratio is incalculable).

Notes: • Heating Degree-days are relative measures of outdoor air temperature used as indices of heating energy requirements. • Heating degree-days are the number of degrees per day that the daily average temperature falls below 65 degrees Fahrenheit. The daily average temperature is the mean of the minimum and maximum temperatures in a 24-hour period.

Source: National Oceanic and Atmospheric Administration's National Weather Service Climate Analysis Center.

## Cooling Degree-Days by Census Division, March 1999

| Census Division | Number of Degree-Days | | | Percent Change | |
|---|---|---|---|---|---|
| | *Normal** | 1998 | 1999 | Normal to 1999 | 1998 to 1999 |
| New England | *0* | 1 | 0 | NM | NM |
| Middle Atlantic | *0* | 6 | 0 | NM | NM |
| East North Central | *1* | 7 | 0 | NM | NM |
| West North Central | *3* | 4 | 0 | NM | NM |
| South Atlantic | *47* | 44 | 31 | NM | NM |
| East South Central | *19* | 21 | 0 | NM | NM |
| West South Central | *47* | 34 | 3 | NM | NM |
| Mountain | *8* | 3 | 0 | NM | NM |
| Pacific Contiguous | *3* | 0 | 0 | NM | NM |
| **U.S. Average** | ***16*** | **15** | **6** | **NM** | **NM** |

*"Normal" is based on calculations using temperature data for 1961 through 1990.

**NM** = Not meaningful (normal is less than 100 or ratio is incalculable).

Notes: • Cooling degree-days are relative measures of outdoor air temperature used as indices of cooling energy requirements. • Cooling degree-days are the number of degrees per day that the daily average temperature falls above 65 degrees Fahrenheit. The daily average temperature is the mean of the minimum and maximum temperatures in a 24-hour period.

Source: National Oceanic and Atmospheric Administration's National Weather Service Climate Analysis Center.

## Table 1. New U.S. Electric Generating Units by Operating Company, Plant, and State, and Retirements and Total Capability 1999

| Month/ Company | Plant | State | Generating Unit Number | Net Summer Capability[1] (megawatts) | Energy Source | Unit Type Code |
|---|---|---|---|---|---|---|
| **January** | | | | | | |
| Rockford City of | Rockford | IA | 6 | 1.6 | Petroleum | IC |
| Trinidad City of | Trinidad | CO | 5,6,7 | 5.7 | Petroleum | IC |
| Northwestern Wisconsin | Mobile Diesel | WI | 1 | .5 | Petroleum | IC |
| Public Service Co of Colorado | Fort St Vrain | CO | 3 | 128.0 | Gas | CT |
| **February**[R] | | | | | | |
| Alabama Power Co | Olin Cogeneration | AL | 1 | 109.0 | Gas | CC |
| Alaska Power Co | Naukati | AK | 3 | .3 | Petroleum | IC |
| East Kentucky Power Co | JK Smith | KY | 2 | 110.0 | Gas | GT |
| **March** | | | | | | |
| St George City of | Bloomington Power Pl | UT | 1,2,3,4,5,6,7 | 10.5 | Petroleum | IC |
| Deshler City of | Deshler | NE | 5 | 1.1 | Petroleum | IC |
| **Total Capability of Newly Added Units** | — | — | — | **366.6** | — | — |
| **Total Capability of Retired Units** | — | — | — | **29.4** | — | — |
| **U.S. Total Capability** | — | — | — | **688,842.0** | — | — |

[1] Net summer capability is estimated.
[R] Revised.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are preliminary. Final data for the year are to be released in the *Inventory of Power Plants in the United States* (DOE/EIA-0095). •Unit Type Codes are: CT=Combined Cycle Combustion Turbine, GT=Combustion (gas) Turbine, IC=Internal Combustion, CC=Combined Cycle - Total Unit).

Source: Energy Information Administration, Form EIA-860A, "Annual Electric Generator Report - Utility," and Form EIA-860B, "Annual Electric Generator Report - Nonutility."

## Table 2. U.S. Electric Power Summary Statistics

| Items | March 1999 | February 1999 | March 1998 | Year To Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 | 1998 | Difference (percent) |
| **Electric Utility** | | | | | | |
| **Net Generation (Million kWh)**[2] | | | | | | |
| Coal | 142,215 | 133,699 | 144,487 | 431,553 | 437,610 | -1.4 |
| Petroleum[3] | 8,600 | 8,074 | 8,682 | 26,885 | 20,758 | 29.5 |
| Gas | 19,944 | 14,690 | 18,787 | 51,978 | 48,018 | 8.3 |
| Nuclear Power | 58,578 | 57,235 | 53,711 | 181,074 | 162,599 | 11.4 |
| Hydroelectric (Pumped Storage)[4] | -377 | -356 | -15 | -1,281 | 65 | -2070.7 |
| Renewable | | | | | | |
| Hydroelectric (Conventional) | 30,093 | 26,915 | 30,268 | 84,685 | 86,446 | -2.0 |
| Geothermal | 397 | 352 | 487 | 1,163 | 1,368 | -15.0 |
| Biomass | 138 | 146 | 169 | 447 | 485 | -7.8 |
| Wind | * | * | * | 2 | * | 5029.0 |
| Photovoltaic | * | * | * | * | * | 12.2 |
| All Energy Sources | 259,589 | 240,755 | 256,575 | 776,507 | 757,350 | 2.5 |
| **Consumption**[2] | | | | | | |
| Coal (1,000 short tons) | 70,922 | 67,489 | 71,817 | 217,202 | 220,433 | -1.5 |
| Petroleum (1,000 barrels)[5] | 13,719 | 13,034 | 13,921 | 43,492 | 33,013 | 31.7 |
| Gas (1,000 Mcf) | 206,430 | 151,958 | 194,258 | 537,294 | 499,164 | 7.6 |
| **Stocks (end-of-month)**[2] | | | | | | |
| Coal (1,000 short tons) | 135,732 | 128,256 | 108,101 | — | — | — |
| Petroleum (1,000 barrels)[6] | 51,943 | 52,488 | 46,661 | — | — | — |
| **Retail Sales (Million kWh)**[7] | | | | | | |
| Residential | 89,025 | 86,293 | 85,485 | 286,008 | 273,539 | 4.6 |
| Commercial | 74,919 | 72,721 | 72,227 | 225,961 | 216,525 | 4.4 |
| Industrial | 85,165 | 80,844 | 84,516 | 248,544 | 249,732 | -.5 |
| Other[8] | 8,014 | 7,763 | 7,864 | 23,927 | 23,606 | 1.4 |
| All Sectors | 257,122 | 247,621 | 250,092 | 784,440 | 763,402 | 2.8 |
| **Revenue (Million Dollars)**[7] | | | | | | |
| Residential | 7,031 | 6,849 | 6,858 | 22,286 | 21,776 | 2.3 |
| Commercial | 5,314 | 5,184 | 5,270 | 15,931 | 15,758 | 1.1 |
| Industrial | 3,571 | 3,497 | 3,681 | 10,596 | 10,883 | -2.6 |
| Other[8] | 538 | 513 | 542 | 1,594 | 1,590 | .2 |
| All Sectors | 16,454 | 16,042 | 16,351 | 50,406 | 50,007 | .8 |
| **Average Revenue/kWh (Cents)**[7] | | | | | | |
| Residential | 7.90 | 7.94 | 8.02 | 7.79 | 7.96 | -2.1 |
| Commercial | 7.09 | 7.13 | 7.30 | 7.05 | 7.28 | -3.1 |
| Industrial | 4.19 | 4.33 | 4.36 | 4.26 | 4.36 | -2.2 |
| Other[8] | 6.72 | 6.60 | 6.89 | 6.66 | 6.74 | -1.1 |
| All Sectors | 6.40 | 6.48 | 6.54 | 6.43 | 6.55 | -1.9 |

| | February 1999[9] | January 1999[9] | February 1998[9] | Year To Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999[9] | 1998[9] | Difference (percent) |
| **Receipts** | | | | | | |
| Coal (1,000 short tons) | 73,938 | 76,331 | 70,353 | 150,269 | 149,565 | 0.5 |
| Petroleum (1,000 barrels)[10] | 10,417 | 14,019 | 9,255 | 24,436 | 19,360 | 26.2 |
| Gas (1,000 Mcf) | 138,303 | 163,125 | 124,584 | 301,428 | 290,453 | 3.8 |
| **Cost (cents/million Btu)**[11] | | | | | | |
| Coal | 124.7 | 122.1 | 126.2 | 123.3 | 125.9 | -2.0 |
| Petroleum[12] | 171.5 | 181.9 | 214.0 | 177.4 | 228.9 | -22.5 |
| Gas[13] | 221.5 | 225.0 | 253.4 | 223.4 | 265.7 | -15.9 |

See next page for footnotes.

1 Values are estimates based on a cutoff sample; see Technical Notes for a discussion of the sample design for Form EIA-900.

2 Values for 1999 are estimates based on a cutoff model sample; see Technical Notes for a discussion of the sample design for the Form EIA-759; 1998 estimates have been adjusted to reflect the Form EIA-759 census data and are final; see Technical Notes for adjustment methodology.

3 Includes petroleum coke.

4 Represents total pumped storage facility production minus energy used for pumping. Pumping energy used at pumped storage plants for March 1999 was 1,941 million kilowatthours.

5 The March 1999 petroleum coke consumption was 134,698 short tons.

6 The March 1999 petroleum coke stocks were 539,694 short tons.

7 Values for 1999 are estimates based on a cutoff model sample; see Technical Notes for a discussion of the sample design for the Form EIA-826; values for 1998 have been revised and are preliminary. Retail revenue and retail average revenue per kilowatthour do not include taxes such as sales and excise taxes that are assessed on the consumer and collected through the utility. Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.

8 Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

9 Values are preliminary for 1998 and final for 1997.

10 The February 1999 petroleum coke receipts were 286,917 short tons.

11 Average cost of fuel delivered to electric generating plants; cost values are weighted values.

12 February 1999 petroleum coke cost was 62.7 cents per million Btu.

13 Includes small amounts of coke-oven, refinery, and blast-furnace gas.

* = For detailed data, the absolute value is less than 0.5; for percentage calculations, the absolute value is less than 0.05 percent.

NA = Data are not available.

NM = This value may not be applicable or the percent difference calculation is not meaningful.

Notes: • * means the absolute value of the number is less than 0.5. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •kWh=kilowatthours, and Mcf=thousand cubic feet. •Monetary values are expressed in nominal terms.

Sources: •Energy Information Administration, Form EIA-759, "Monthly Power Plant Report"; Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions"; Form EIA-900, "Monthly Nonutility Power Plant Report"; Form EIA-861, "Annual Electric Utility Report." •Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

# Industry Developments

## UtiliCorp United and Empire District to Merge

UtiliCorp United (UtiliCorp) and Empire District Electric Company (Empire District) announced that they have signed a merger agreement valued at approximately $800 million. Under the agreement, UtiliCorp will purchase Empire District for $505 million and the assumption of $260 million in debt. Preferred stock totaling $33 million will be redeemed prior to closing the agreement. This agreement follows UtiliCorp's bid of $270 million for St. Joseph Light & Power Company that was announced in March 1999. The agreements to purchase each company are expected to be finalized sometime in 2000. Both Empire District and St Joseph's will be operated as separate retail energy distribution units of UtiliCorp.[1]

UtiliCorp, based in Kansas City, Missouri, serves more than three million customers in eight States and Canada, Australia, New Zealand, and the United Kingdom. It has $6 billion in assets and annual sales of over $12 billion. Its Missouri Public Service (MPS) unit has served west central Missouri since 1917. Currently, MPS has approximately 250,000 electric and gas customers in west and central Missouri. Services have been provided under the "EnergyOne" trademark since 1995. Aquila Energy, a subsidiary of UtiliCorp, is the second largest volume wholesaler of natural gas and the third largest volume wholesaler of electricity in the United States.

Empire District is headquartered in Joplin, Missouri, and serves 145,000 electric customers in southwest Missouri and five Kansas, Oklahoma, and Arkansas counties that adjoin the State. Prominent plants owned by Empire District include the 231-megawatt coal-fired Asbury plant, the 258-megawatt gas-fired Empire Energy Center, 303-megawatt gas-fired Stateline plant, and the 133-megawatt multi-fuel fired Riverton plant located in Cherokee, Kansas.

St. Joseph serves approximately 66,000 customers over a 10-county area of northwest Missouri. Its primary generating facility is the multi-fueled 7-unit 273-megawatt Lake Road generating station, located in Buchanan, Missouri.

## TransAlta to Purchase Centralia Plant

TransAlta, headquartered in Calgary, Alberta, and a leading independent power producer in Canada, was the successful bidder for acquisition of the Centralia power plant located in Washington State. The 1,340-megawatt coal-fired facility was placed on the auction block in July 1998. The eight owners of the plant and adjacent mine cited electric industry restructuring and emerging competition as the primary reasons for the sale. Centralia had been the focus of an environmental controversy concerning emissions from the plant. An agreement between the owners of Centralia and the Southwest Air Pollution Control Authority to install a $200 million scrubber system had been challenged by environmentalists. PacifiCorp, which operates Centralia and owns 47.5 percent of the facility, had stated at one point that changes sought by an appeal to the agreement "would render the plant uneconomic to operate or would severely restrict its use."

Concerning the emissions debate, TransAlta stated that it intends "to invest additional capital in the power plant in order to ensure it will be among the cleanest coal-fired plants in North America." in order to meet the new binding emission regulations recently established for the plant. Installation of the scrubber system that was previously approved by the eight owners will begin shortly, though the agreement for the sale of the plant is not expected before year-end.[2]

## Conectiv to Sell Power Plants / Restructure

Conectiv, the Wilmington, Delaware based company formed through the merger of Delmarva Power & Light Company and Atlantic City Electric Company, announced that it intends to sell some of its power plants, cut its dividend, and repurchase outstanding stock in order to transform from a regulated public

[1] Empire District Electric Company, extracted from the Internet at http://www.empiredistric.com on June 11, 1999.
[2] TransAlta, extracted from the Internet at http://www.transAlta.com on June 11,1999.

utility to a "regional provider of vital services."[3] According to the *Wall Street Journal*, these measures will "free up about $1 billion in cash to make the utility more competitive."[4]

According to Conectiv, 2,200 megawatts of nuclear and non-strategic baseload fossil-fired generation assets will be sold in order to repay debt, and to realize gains to offset stranded costs from generation plants. Conectiv will retain generating plants that it finds to be "strategic to its energy business and assure reliability for its customers." It does not intend to compete in the electricity wholesale generation market. Divestiture of the assets is expected by midyear 2000. As of January 1, 1998, Conectiv owned 2,087 megawatts (MW) of generating capacity in Delaware, 192 MW in Maryland, and 1,309 MW in New Jersey. Not included in these totals are Conectiv's ownership stake in the Hope Creek, Salem, and Peach Bottom nuclear plants. Conectiv also has an 8-percent ownership stake in the Conemaugh plant and a 6-percent stake in the Keystone plant, both of which are located in Pennsylvania.

Key markets of growth for Conectiv in the future will be energy, telecommunications, and the regulated market for the delivery of electricity and gas. According to Conectiv, strong cash flow from the regulated business will be used to fund better growth opportunities as it expands throughout the Middle Atlantic region.

[3] Conectiv, extracted from the Internet at http://www.conectiv.com on June 11, 1999.
[4] K.Kranhold, "Conectiv to Announce Restructuring, Including Sale of Plants, Stock Buyback," *The Wall Street Journal* (May 11, 1999).

## Electric Utility Plants That Have Been Sold and Reclassified as Nonutility Plants

| Utility | Plant | State | Nameplate Capacity (megawatts) | Date[a] | Buyer |
|---|---|---|---|---|---|
| Commonwealth Edison Co IN Inc | State Line | IN | 614 | January 1998 | Southern Energy |
| Fairbanks City of | Chena | AK | 57 | January 1998 | Aurora Energy |
| Commonwealth Edison Co Inc | Kincaid | IL | 1,319 | February 1998 | Dominion Energy |
| Southern California Edison Co | Long Beach | CA | 587 | March 1998 | NRG/Destec Energy |
| Southern California Edison Co | Cool Water | CA | 727 | April 1998 | Houston Industries |
| Southern California Edison Co | El Segundo | CA | 997 | April 1998 | NRG/Destec Energy |
| Southern California Edison Co | Ellwood | CA | 57 | April 1998 | Houston Industries |
| Southern California Edison Co | Etiwanda | CA | 1,049 | April 1998 | Houston Industries |
| Southern California Edison Co | Highgrove | CA | 169 | April 1998 | Thermo Electron |
| Southern California Edison Co | Mandalay | CA | 573 | April 1998 | Houston Industries |
| Southern California Edison Co | San Bernardino | CA | 131 | April 1998 | Thermo Electron |
| Boston Edison Co | Edgar | MA | 18 | May 1998 | Sithe Energies |
| Boston Edison Co | Framingham | MA | 43 | May 1998 | Sithe Energies |
| Boston Edison Co | L Street | MA | 19 | May 1998 | Sithe Energies |
| Boston Edison Co | Mystic | MA | 1,100 | May 1998 | Sithe Energies |
| Boston Edison Co | New Boston | MA | 718 | May 1998 | Sithe Energies |
| Boston Edison Co | West Medway | MA | 135 | May 1998 | Sithe Energies |
| Southern California Edison Co | Alamitos | CA | 2,120 | May 1998 | AES Corp |
| Southern California Edison Co | Huntington Beach | CA | 1,009 | May 1998 | AES Corp |
| Southern California Edison Co | Redondo Beach | CA | 1,573 | May 1998 | AES Corp |
| Pacific Gas & Electric Co | Morro Bay | CA | 1,056 | July 1998 | Duke Energy Corp |
| Pacific Gas & Electric Co | Moss Landing | CA | 1,624 | July 1998 | Duke Energy Corp |
| Pacific Gas & Electric Co | Oakland | CA | 201 | July 1998 | Duke Energy Corp |
| Sacramento Municipal Util Dist | SMUD GEO | CA | 78 | July 1998 | Calpine Geysers Co. |
| Southern California Edison Co | Ormond Beach | CA | 1,613 | July 1998 | Houston Industries |
| Big Rivers Electric Corp | K C Coleman | KY | 521 | August 1998 | LG&E Energy[b] |
| Big Rivers Electric Corp | R D Green | KY | 527 | August 1998 | LG&E Energy[b] |
| Big Rivers Electric Corp | HMP&L Station 2 | KY | 365 | August 1998 | LG&E Energy[b] |
| Big Rivers Electric Corp | R A Reid | KY | 171 | August 1998 | LG&E Energy[b] |
| Big Rivers Electric Corp | D B Wilson | KY | 510 | August 1998 | LG&E Energy[b] |
| New England Power Co | Comerford | NH | 140 | September 1998 | U S Generating Co |
| New England Power Co | Mcindoes | NH | 11 | September 1998 | U S Generating Co |
| New England Power Co | S C Moore | NH | 140 | September 1998 | U S Generating Co |
| New England Power Co | Wilder | NH | 37 | September 1998 | U S Generating Co |
| New England Power Co | Bellows Falls | VT | 41 | September 1998 | U S Generating Co |
| New England Power Co | Harriman | VT | 34 | September 1998 | U S Generating Co |
| New England Power Co | Searsburg | VT | 4 | September 1998 | U S Generating Co |
| New England Power Co | Vernon | VT | 24 | September 1998 | U S Generating Co |
| New England Power Co | Deerfield | MA | 32 | September 1998 | U S Generating Co |
| New England Power Co | Sherman | MA | 7 | September 1998 | U S Generating Co |
| New England Power Co | Brayton Point | MA | 1,600 | September 1998 | U S Generating Co |
| New England Power Co | Salem Harbor | MA | 805 | September 1998 | U S Generating Co |
| New England Power Co | Fife Brook | MA | 11 | September 1998 | U S Generating Co |
| New England Power Co | Bear Swamp | MA | 600 | September 1998 | U S Generating Co |
| New England Power Co | Manchester Street | RI | 489 | September 1998 | U S Generating Co |
| Fitchburg Gas & Elec Light Co | Fitchburg | MA | 28 | September 1998 | Fleet Leasing[c] |
| Cambridge Electric Light Co | Kendall Square | MA | 114 | December 1998 | Southern Energy |
| Canal Electric Co | Canal | MA | 1,164 | December 1998 | Southern Energy |
| Commonwealth Electric Co | Oak Bluff DSLS | MA | 8 | December 1998 | Southern Energy |
| Commonwealth Electric Co | West Tisbury | MA | 6 | December 1998 | Southern Energy |

[a]Start date for facility to begin reporting as a nonutility generator.
[b]Plants leased to LG&E Energy for 25 years.
[c]Unit returned to lessor.
Source: Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Department of Energy.

After an electric utility plant is sold and reclassified as nonutility plant, data for that plant is no longer collected on EIA Form-759, "Monthly Power Plant Report," and Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." Data collected prior to the sale will continue to be shown in this report. Consequently, a comparison between 1998 and historical State, Census Division, and U.S. level totals will be affected by the reclassification of plants.

# U.S. Electric Utility Net Generation

**Table 3. U.S. Electric Power Industry Net Generation, 1990 Through March 1999**
(Million Kilowatthours)

| Period | Electric Utilities | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum[1] | Gas[2] | Nuclear | Hydroelectric | Geothermal | Other[3] | Total |
| **1990** | **1,559,606** | **117,017** | **264,089** | **576,862** | **279,926** | **8,581** | **2,070** | **2,808,151** |
| **1991** | **1,551,167** | **111,463** | **264,172** | **612,565** | **275,519** | **8,087** | **2,050** | **2,825,023** |
| **1992** | **1,575,895** | **88,916** | **263,872** | **618,776** | **239,559** | **8,104** | **2,096** | **2,797,219** |
| **1993** | **1,639,151** | **99,539** | **258,915** | **610,291** | **265,063** | **7,571** | **1,994** | **2,882,525** |
| **1994** | **1,635,493** | **91,039** | **291,115** | **640,440** | **243,693** | **6,941** | **1,992** | **2,910,712** |
| **1995** | **1,652,914** | **60,844** | **307,306** | **673,402** | **293,653** | **4,745** | **1,664** | **2,994,529** |
| **1996** | **1,737,453** | **67,346** | **262,730** | **674,729** | **327,970** | **5,234** | **1,980** | **3,077,442** |
| **1997** | | | | | | | | |
| January | 161,286 | 8,225 | 13,359 | 58,914 | 31,049 | 414 | 162 | 273,410 |
| February | 134,998 | 4,479 | 13,475 | 50,658 | 29,840 | 310 | 148 | 233,907 |
| March | 137,830 | 4,345 | 18,191 | 50,414 | 33,286 | 438 | 155 | 244,659 |
| April | 131,744 | 3,926 | 18,870 | 44,883 | 30,436 | 484 | 170 | 230,512 |
| May | 136,110 | 4,452 | 22,192 | 47,032 | 32,709 | 471 | 178 | 243,143 |
| June | 146,009 | 6,728 | 28,456 | 52,095 | 32,762 | 385 | 154 | 266,588 |
| July | 167,087 | 9,072 | 40,403 | 57,352 | 30,034 | 512 | 169 | 304,628 |
| August | 162,384 | 7,711 | 37,237 | 61,084 | 25,462 | 505 | 174 | 294,557 |
| September | 151,427 | 7,688 | 32,281 | 52,586 | 22,031 | 482 | 153 | 266,649 |
| October | 152,004 | 7,094 | 23,276 | 46,981 | 23,240 | 477 | 194 | 253,267 |
| November | 146,037 | 6,660 | 17,029 | 51,189 | 22,166 | 475 | 170 | 243,726 |
| December | 160,890 | 7,374 | 18,855 | 55,457 | 24,219 | 516 | 166 | 267,477 |
| **Total** | **1,787,806** | **77,753** | **283,625** | **628,644** | **337,233** | **5,469** | **1,993** | **3,122,522** |
| **1998** | | | | | | | | |
| January | 156,658 | 6,390 | 16,352 | 57,889 | 27,482 | 491 | 172 | 265,435 |
| February | 136,465 | 5,686 | 12,879 | 50,999 | 28,776 | 390 | 145 | 235,340 |
| March | 144,487 | 8,682 | 18,787 | 53,711 | 30,252 | 487 | 169 | 256,575 |
| April | 132,282 | 6,817 | 18,479 | 47,503 | 26,889 | 320 | 168 | 232,457 |
| May | 145,357 | 9,534 | 27,238 | 51,496 | 30,981 | 288 | 182 | 265,077 |
| June | 157,403 | 12,140 | 35,055 | 55,732 | 30,216 | 354 | 130 | 291,029 |
| July | 172,895 | 13,611 | 42,186 | 61,499 | 26,708 | 448 | 173 | 317,521 |
| August | 172,348 | 13,042 | 42,837 | 60,369 | 23,282 | 483 | 177 | 312,538 |
| September | 155,068 | 10,539 | 36,120 | 57,206 | 19,621 | 474 | 171 | 279,198 |
| October | 144,436 | 7,339 | 23,927 | 57,429 | 17,537 | 523 | 188 | 251,380 |
| November | 137,915 | 7,401 | 17,187 | 57,372 | 18,595 | 466 | 152 | 239,089 |
| December | 152,166 | 8,977 | 18,175 | 62,497 | 24,062 | 451 | 205 | 266,532 |
| **Total** | **1,807,480** | **110,158** | **309,222** | **673,702** | **304,403** | **5,176** | **2,030** | **3,212,171** |
| **1999** | | | | | | | | |
| January | 155,639 | 10,210 | 17,345 | 65,261 | 27,130 | 414 | 165 | 276,163 |
| February | 133,699 | 8,074 | 14,690 | 57,235 | 26,559 | 352 | 146 | 240,755 |
| March | 142,215 | 8,600 | 19,944 | 58,578 | 29,716 | 397 | 138 | 259,589 |
| **Total** | **431,553** | **26,885** | **51,978** | **181,074** | **83,404** | **1,163** | **449** | **776,507** |
| ***Year to Date*** | | | | | | | | |
| **1999** | **431,553** | **26,885** | **51,978** | **181,074** | **83,404** | **1,163** | **449** | **776,507** |
| **1998** | **437,610** | **20,758** | **48,018** | **162,599** | **86,511** | **1,368** | **486** | **757,350** |
| **1997** | **434,115** | **17,050** | **45,024** | **159,986** | **94,174** | **1,162** | **465** | **751,977** |

1 Includes fuel oils nos. 1, 2, 4, 5, and 6, crude oil, kerosene, and petroleum coke
2 Includes supplemental gaseous fuel.
3 Includes biomass, wind, photovoltaic, and solar thermal energy sources.
NA This estimated value is not available due to insufficient data or inadequate anticipated data/model performance.
NA = Not available.

Notes: •Values for electric utilities for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for electric utilities for 1998 have been adjusted to reflect the Form EIA-759 census data and are final--see Technical Notes for adjustment methodology. Values for electric utilities for 1997 and prior years are final. •Values for nonutilities (Form EIA-867) for 1997 and prior years are final, and for 1998 are preliminary. •Totals may not equal sum of components because of independent rounding. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

## Table 4. U.S. Electric Utility Net Generation by Nonrenewable Energy Source, 1990 Through March 1999

(Million Kilowatthours)

| Period | All Nonrenewable Energy Sources | Coal[1] | Petroleum[2] | Gas | Nuclear | Hydroelectric[3] (Pumped Storage) |
|---|---|---|---|---|---|---|
| **1990** | **2,514,066** | **1,559,606** | **117,017** | **264,089** | **576,862** | **-3,508** |
| **1991** | **2,534,825** | **1,551,167** | **111,463** | **264,172** | **612,565** | **-4,541** |
| **1992** | **2,543,283** | **1,575,895** | **88,916** | **263,872** | **618,776** | **-4,177** |
| **1993** | **2,603,861** | **1,639,151** | **99,539** | **258,915** | **610,291** | **-4,036** |
| **1994** | **2,654,708** | **1,635,493** | **91,039** | **291,115** | **640,440** | **-3,378** |
| **1995** | **2,691,742** | **1,652,914** | **60,844** | **307,306** | **673,402** | **-2,725** |
| **1996** | **2,739,170** | **1,737,453** | **67,346** | **262,730** | **674,729** | **-3,088** |
| **1997** | | | | | | |
| January | 241,278 | 161,286 | 8,225 | 13,359 | 58,914 | -507 |
| February | 203,277 | 134,998 | 4,479 | 13,475 | 50,658 | -333 |
| March | 210,563 | 137,830 | 4,345 | 18,191 | 50,414 | -217 |
| April | 199,149 | 131,744 | 3,926 | 18,870 | 44,883 | -274 |
| May | 209,766 | 136,110 | 4,452 | 22,192 | 47,032 | -19 |
| June | 233,061 | 146,009 | 6,728 | 28,456 | 52,095 | -227 |
| July | 273,640 | 167,087 | 9,072 | 40,403 | 57,352 | -274 |
| August | 268,117 | 162,384 | 7,711 | 37,237 | 61,084 | -298 |
| September | 243,611 | 151,427 | 7,688 | 32,281 | 52,586 | -371 |
| October | 228,915 | 152,004 | 7,094 | 23,276 | 46,981 | -441 |
| November | 220,380 | 146,037 | 6,660 | 17,029 | 51,189 | -535 |
| December | 242,031 | 160,890 | 7,374 | 18,855 | 55,457 | -544 |
| **Total** | **2,773,787** | **1,787,806** | **77,753** | **283,625** | **628,644** | **-4,041** |
| **1998** | | | | | | |
| January | 237,245 | 156,658 | 6,390 | 16,352 | 57,889 | -44 |
| February | 206,154 | 136,465 | 5,686 | 12,879 | 50,999 | 125 |
| March | 225,651 | 144,487 | 8,682 | 18,787 | 53,711 | -15 |
| April | 204,644 | 132,282 | 6,817 | 18,479 | 47,503 | -437 |
| May | 232,899 | 145,357 | 9,534 | 27,238 | 51,496 | -727 |
| June | 259,654 | 157,403 | 12,140 | 35,055 | 55,732 | -675 |
| July | 289,525 | 172,895 | 13,611 | 42,186 | 61,499 | -666 |
| August | 287,893 | 172,348 | 13,042 | 42,837 | 60,369 | -703 |
| September | 258,660 | 155,068 | 10,539 | 36,120 | 57,206 | -272 |
| October | 232,630 | 144,436 | 7,339 | 23,927 | 57,429 | -501 |
| November | 219,347 | 137,915 | 7,401 | 17,187 | 57,372 | -528 |
| December | 241,819 | 152,166 | 8,977 | 18,175 | 62,497 | 4 |
| **Total** | **2,896,121** | **1,807,480** | **110,158** | **309,222** | **673,702** | **-4,441** |
| **1999** | | | | | | |
| January | 247,906 | 155,639 | 10,210 | 17,345 | 65,261 | -548 |
| February | 213,342 | 133,699 | 8,074 | 14,690 | 57,235 | -356 |
| March | 228,961 | 142,215 | 8,600 | 19,944 | 58,578 | -377 |
| **Total** | **690,209** | **431,553** | **26,885** | **51,978** | **181,074** | **-1,281** |
| **Year to Date** | | | | | | |
| **1999** | **690,209** | **431,553** | **26,885** | **51,978** | **181,074** | **-1,281** |
| **1998** | **669,050** | **437,610** | **20,758** | **48,018** | **162,599** | **65** |
| **1997** | **655,118** | **434,115** | **17,050** | **45,024** | **159,986** | **-1,057** |

1 Includes lignite, bituminous coal, subbituminous coal, and anthracite.

2 Includes fuel oil Nos. 2, 4, 5, and 6, crude oil, kerosene, and petroleum coke.

3 Pumping energy used for pumped storage plants for March 1999 was 1,941 million kilowatthours.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final--see Technical Notes for adjustment methodology. Values for 1997 and prior years are final. •Totals may not equal sum of components because of independent rounding. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 5. U.S. Electric Utility Net Generation by Renewable Energy Source, 1990 Through March 1999

(Thousand Kilowatthours)

| Period | All Renewable Energy Sources | Hydroelectric (Conventional) | Geothermal | Biomass | Wind | Photovoltaic |
|---|---|---|---|---|---|---|
| **1990** | **294,085,003** | **283,433,659** | **8,581,228** | **2,067,270** | **398** | **2,448** |
| **1991** | **290,197,798** | **280,060,621** | **8,087,055** | **2,046,499** | **285** | **3,338** |
| **1992** | **253,936,260** | **243,736,029** | **8,103,809** | **2,092,945** | **308** | **3,169** |
| **1993** | **278,663,780** | **269,098,329** | **7,570,999** | **1,990,407** | **243** | **3,802** |
| **1994** | **256,003,613** | **247,070,938** | **6,940,637** | **1,988,257** | **309** | **3,472** |
| **1995** | **302,786,828** | **296,377,840** | **4,744,804** | **1,649,178** | **11,097** | **3,909** |
| **1996** | **338,272,331** | **331,058,055** | **5,233,927** | **1,967,057** | **10,123** | **3,169** |
| **1997** | | | | | | |
| January | 32,132,786 | 31,555,924 | 414,430 | 162,133 | 219 | 80 |
| February | 30,630,175 | 30,172,535 | 309,699 | 147,510 | 198 | 233 |
| March | 34,096,006 | 33,503,081 | 437,818 | 154,531 | 270 | 306 |
| April | 31,363,287 | 30,709,450 | 484,260 | 168,566 | 589 | 422 |
| May | 33,376,829 | 32,728,115 | 470,792 | 176,925 | 637 | 360 |
| June | 33,526,969 | 32,988,644 | 384,659 | 152,194 | 940 | 532 |
| July | 30,988,417 | 30,308,053 | 511,676 | 167,269 | 926 | 493 |
| August | 26,439,540 | 25,759,878 | 505,424 | 172,864 | 964 | 410 |
| September | 23,037,823 | 22,402,182 | 482,357 | 152,581 | 473 | 230 |
| October | 24,351,853 | 23,681,131 | 476,849 | 193,152 | 499 | 222 |
| November | 23,345,846 | 22,700,846 | 475,091 | 169,665 | 132 | 112 |
| December | 25,445,551 | 24,763,608 | 516,055 | 165,677 | 130 | 81 |
| **Total** | **348,735,082** | **341,273,447** | **5,469,110** | **1,983,067** | **5,977** | **3,481** |
| **1998** | | | | | | |
| January | 28,189,793 | 27,526,636 | 491,305 | 171,791 | 17 | 44 |
| February | 29,186,508 | 28,651,686 | 390,181 | 144,599 | 8 | 34 |
| March | 30,923,604 | 30,267,686 | 486,607 | 169,055 | 6 | 250 |
| April | 27,813,755 | 27,325,728 | 320,413 | 167,252 | 84 | 278 |
| May | 32,178,489 | 31,708,073 | 288,494 | 181,593 | 140 | 189 |
| June | 31,374,829 | 30,891,590 | 353,625 | 128,893 | 386 | 335 |
| July | 27,995,724 | 27,374,620 | 448,490 | 171,673 | 535 | 406 |
| August | 24,644,552 | 23,985,386 | 482,641 | 175,748 | 412 | 365 |
| September | 20,537,720 | 19,893,032 | 474,013 | 169,950 | 465 | 260 |
| October | 18,749,908 | 18,038,240 | 523,350 | 187,838 | 292 | 188 |
| November | 19,741,577 | 19,123,266 | 466,333 | 151,700 | 177 | 101 |
| December | 24,713,293 | 24,057,811 | 450,828 | 204,151 | 435 | 68 |
| **Total** | **316,049,752** | **308,843,754** | **5,176,280** | **2,024,243** | **2,957** | **2,518** |
| **1999** | | | | | | |
| January | 28,257,348 | 27,677,884 | 414,341 | 163,665 | 1,411 | 47 |
| February | 27,412,673 | 26,914,747 | 351,981 | 145,853 | 6 | 86 |
| March | 30,627,791 | 30,092,783 | 396,761 | 137,839 | 173 | 235 |
| **Total** | **86,297,812** | **84,685,414** | **1,163,083** | **447,357** | **1,590** | **368** |
| **Year to Date** | | | | | | |
| **1999** | **86,297,812** | **84,685,414** | **1,163,083** | **447,357** | **1,590** | **368** |
| **1998** | **88,299,905** | **86,446,008** | **1,368,093** | **485,445** | **31** | **328** |
| **1997** | **96,858,967** | **95,231,540** | **1,161,947** | **464,174** | **687** | **619** |

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final--see Technical Notes for adjustment methodology. Values for 1997 and prior years are final. •Totals may not equal sum of components because of independent rounding. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 6. Electric Utility Net Generation by NERC Region and Hawaii
(Million Kilowatthours)

| NERC Region and Hawaii | March 1999 | February 1999 | March 1998 | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 | 1998 | Difference (percent) |
| ECAR | 44,894 | 42,114 | 44,229 | 134,855 | 132,445 | 1.8 |
| ERCOT | 16,139 | 14,675 | 16,809 | 48,061 | 48,201 | –.3 |
| MAAC | 18,758 | 17,611 | 18,455 | 56,804 | 54,045 | 5.1 |
| MAIN | 19,463 | 17,423 | 16,526 | 56,934 | 49,406 | 15.2 |
| MAPP (U.S.) | 13,699 | 12,618 | 14,206 | 41,266 | 42,073 | –1.9 |
| NPCC (U.S.) | 14,640 | 14,226 | 15,450 | 45,197 | 45,793 | –1.3 |
| SERC | 49,838 | 46,094 | 51,666 | 149,303 | 150,731 | –.9 |
| FRCC | 11,297 | 10,795 | 11,261 | 34,194 | 32,277 | NM |
| SPP | 23,291 | 20,954 | 22,793 | 69,280 | 67,299 | 2.9 |
| WSCC (U.S.) | 46,614 | 43,312 | 44,233 | 137,786 | 132,224 | 4.2 |
| **Contiguous U.S.** | **258,634** | **239,821** | **255,627** | **773,680** | **754,494** | **2.5** |
| ASCC | 380 | 391 | 406 | 1,217 | 1,370 | –11.2 |
| Hawaii | 574 | 543 | 543 | 1,610 | 1,486 | 8.4 |
| **U.S. Total** | **259,589** | **240,755** | **256,575** | **776,507** | **757,350** | **2.5** |

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •See Glossary for explanation of acronyms. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 7. Electric Utility Net Generation by Census Division and State
(Million Kilowatthours)

| Census Division and State | March 1999 | February 1999 | March 1998 | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 | 1998 | Difference (percent) |
| **New England** | **4,643** | **4,101** | **5,867** | **14,275** | **18,318** | **-22.1** |
| Connecticut | 1,784 | 1,883 | 1,094 | 5,578 | 3,327 | 67.6 |
| Maine | 438 | 264 | 202 | 1,124 | 646 | 73.9 |
| Massachusetts | 767 | 334 | 2,742 | 2,483 | 8,707 | -71.5 |
| New Hampshire | 1,207 | 1,205 | 1,263 | 3,778 | 3,543 | 6.7 |
| Rhode Island | 1 | 1 | 249 | 3 | 807 | -99.6 |
| Vermont | 446 | 414 | 318 | 1,308 | 1,288 | 1.6 |
| **Middle Atlantic** | **26,724** | **26,227** | **26,078** | **83,082** | **77,259** | **7.5** |
| New Jersey | 2,751 | 2,655 | 1,987 | 8,914 | 6,273 | 42.1 |
| New York | 9,481 | 9,195 | 9,547 | 29,028 | 27,588 | 5.2 |
| Pennsylvania | 14,493 | 14,377 | 14,543 | 45,140 | 43,399 | 4.0 |
| **East North Central** | **44,463** | **41,223** | **41,884** | **132,683** | **127,004** | **4.5** |
| Illinois | 11,849 | 10,705 | 8,983 | 35,006 | 27,967 | 25.2 |
| Indiana | 9,045 | 8,713 | 9,224 | 27,733 | 27,640 | .3 |
| Michigan | 7,409 | 6,973 | 7,182 | 21,727 | 21,185 | 2.6 |
| Ohio | 11,668 | 10,864 | 12,374 | 35,281 | 37,752 | -6.5 |
| Wisconsin | 4,493 | 3,967 | 4,120 | 12,936 | 12,461 | 3.8 |
| **West North Central** | **21,438** | **19,980** | **22,048** | **65,144** | **64,858** | **.4** |
| Iowa | 2,764 | 2,855 | 3,266 | 9,042 | 9,211 | -1.8 |
| Kansas | 3,086 | 3,015 | 3,249 | 9,758 | 9,594 | 1.7 |
| Minnesota | 3,672 | 3,231 | 3,654 | 10,803 | 10,879 | -.7 |
| Missouri | 5,967 | 5,490 | 6,216 | 17,917 | 17,851 | .4 |
| Nebraska | 2,331 | 2,119 | 2,221 | 7,009 | 7,053 | -.6 |
| North Dakota | 2,696 | 2,542 | 2,694 | 8,102 | 7,973 | 1.6 |
| South Dakota | 922 | 728 | 747 | 2,511 | 2,297 | 9.4 |
| **South Atlantic** | **55,081** | **50,458** | **54,177** | **162,470** | **156,519** | **3.8** |
| Delaware | 744 | 430 | 561 | 1,746 | 1,174 | 48.7 |
| District of Columbia | 1 | 2 | -1 | 4 | 3 | 15.6 |
| Florida | 12,068 | 11,404 | 11,811 | 36,166 | 33,888 | 6.7 |
| Georgia | 7,761 | 7,085 | 8,140 | 23,277 | 23,293 | -.1 |
| Maryland | 3,948 | 3,858 | 4,188 | 12,278 | 12,055 | 1.8 |
| North Carolina | 8,744 | 7,924 | 9,572 | 25,484 | 27,445 | -7.1 |
| South Carolina | 7,646 | 6,849 | 6,966 | 22,206 | 20,649 | 7.5 |
| Virginia | 5,624 | 5,407 | 5,452 | 17,027 | 15,718 | 8.3 |
| West Virginia | 8,545 | 7,499 | 7,489 | 24,281 | 22,293 | 8.9 |
| **East South Central** | **26,491** | **25,068** | **28,049** | **80,504** | **81,538** | **-1.3** |
| Alabama | 9,129 | 8,729 | 9,526 | 27,815 | 28,497 | -2.4 |
| Kentucky | 7,704 | 7,124 | 7,441 | 23,054 | 21,934 | 5.1 |
| Mississippi | 2,533 | 2,387 | 2,643 | 7,288 | 6,808 | 7.0 |
| Tennessee | 7,125 | 6,827 | 8,439 | 22,346 | 24,299 | -8.0 |
| **West South Central** | **32,182** | **28,455** | **32,022** | **94,750** | **93,331** | **1.5** |
| Arkansas | 3,672 | 2,783 | 2,684 | 9,787 | 9,137 | 7.1 |
| Louisiana | 4,062 | 4,092 | 4,646 | 13,505 | 13,114 | 3.0 |
| Oklahoma | 4,014 | 3,452 | 4,005 | 11,385 | 11,539 | -1.3 |
| Texas | 20,434 | 18,127 | 20,687 | 60,073 | 59,541 | .9 |
| **Mountain** | **23,174** | **22,796** | **23,358** | **71,578** | **70,121** | **2.1** |
| Arizona | 6,401 | 6,093 | 6,060 | 19,287 | 18,967 | 1.7 |
| Colorado | 2,585 | 2,794 | 2,775 | 8,476 | 8,521 | -.5 |
| Idaho | 1,339 | 1,153 | 1,006 | 3,691 | 2,790 | 32.3 |
| Montana | 2,329 | 2,203 | 2,152 | 6,991 | 6,381 | 9.6 |
| Nevada | 1,957 | 1,884 | 1,974 | 6,146 | 6,085 | 1.0 |
| New Mexico | 2,623 | 2,512 | 2,554 | 7,749 | 7,015 | 10.5 |
| Utah | 2,398 | 2,780 | 2,760 | 8,440 | 8,705 | -3.0 |
| Wyoming | 3,543 | 3,377 | 4,078 | 10,798 | 11,657 | -7.4 |
| **Pacific Contiguous** | **24,416** | **21,470** | **22,143** | **69,136** | **65,551** | **5.5** |
| California | 8,837 | 7,445 | 9,161 | 23,886 | 26,141 | -8.6 |
| Oregon | 5,137 | 4,527 | 4,495 | 14,860 | 13,097 | 13.5 |
| Washington | 10,441 | 9,498 | 8,487 | 30,390 | 26,314 | 15.5 |
| **Pacific Noncontiguous** | **977** | **977** | **949** | **2,885** | **2,849** | **1.3** |
| Alaska | 381 | 395 | 406 | 1,219 | 1,367 | -10.8 |
| Hawaii | 597 | 582 | 543 | 1,665 | 1,481 | 12.4 |
| **U.S. Total** | **259,589** | **240,755** | **256,575** | **776,507** | **757,350** | **2.5** |

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 8. Electric Utility Net Generation from Coal by Census Division and State
(Million Kilowatthours)

| Census Division and State | March 1999 | February 1999 | March 1998 | Year to Date | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Coal Generation | | | Share of Total (percent) | |
| | | | | 1999 | 1998 | Difference (percent) | 1999 | 1998 |
| **New England** | **372** | **250** | **1,136** | **1,125** | **4,263** | **-73.6** | **7.9** | **23.3** |
| Connecticut | — | — | 129 | — | 523 | NM | — | 15.7 |
| Maine | — | — | — | — | — | — | — | — |
| Massachusetts | 117 | 45 | 867 | 298 | 2,906 | -89.8 | 12.0 | 33.4 |
| New Hampshire | 255 | 205 | 140 | 827 | 834 | -.8 | 21.9 | 23.5 |
| Rhode Island | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — | — | — |
| **Middle Atlantic** | **10,777** | **10,484** | **11,328** | **33,147** | **33,817** | **-2.0** | **39.9** | **43.8** |
| New Jersey | 746 | 465 | 390 | 1,750 | 1,171 | 49.5 | 19.6 | 18.7 |
| New York | 1,807 | 1,793 | 1,919 | 5,771 | 5,645 | 2.2 | 19.9 | 20.5 |
| Pennsylvania | 8,224 | 8,226 | 9,019 | 25,626 | 27,001 | -5.1 | 56.8 | 62.2 |
| **East North Central** | **33,369** | **32,016** | **33,582** | **101,487** | **104,049** | **-2.5** | **76.5** | **81.9** |
| Illinois | 5,329 | 5,395 | 4,838 | 16,477 | 16,728 | -1.5 | 47.1 | 59.8 |
| Indiana | 8,881 | 8,639 | 9,076 | 27,378 | 27,234 | .5 | 98.7 | 98.5 |
| Michigan | 5,694 | 5,479 | 5,531 | 16,941 | 17,035 | -.6 | 78.0 | 80.4 |
| Ohio | 10,215 | 9,405 | 10,802 | 30,766 | 33,138 | -7.2 | 87.2 | 87.8 |
| Wisconsin | 3,250 | 3,099 | 3,335 | 9,925 | 9,914 | .1 | 76.7 | 79.6 |
| **West North Central** | **15,380** | **14,770** | **17,022** | **48,357** | **50,137** | **-3.6** | **74.2** | **77.3** |
| Iowa | 2,265 | 2,376 | 2,785 | 7,580 | 7,867 | -3.7 | 83.8 | 85.4 |
| Kansas | 1,959 | 2,142 | 2,283 | 6,772 | 6,876 | -1.5 | 69.4 | 71.7 |
| Minnesota | 2,222 | 1,986 | 2,569 | 6,832 | 7,743 | -11.8 | 63.2 | 71.2 |
| Missouri | 4,856 | 4,464 | 5,136 | 14,774 | 15,115 | -2.3 | 82.5 | 84.7 |
| Nebraska | 1,254 | 1,168 | 1,453 | 3,965 | 4,279 | -7.3 | 56.6 | 60.7 |
| North Dakota | 2,484 | 2,325 | 2,521 | 7,452 | 7,399 | .7 | 92.0 | 92.8 |
| South Dakota | 340 | 309 | 275 | 982 | 860 | 14.3 | 39.1 | 37.4 |
| **South Atlantic** | **32,249** | **27,429** | **30,020** | **91,653** | **88,534** | **3.5** | **56.4** | **56.6** |
| Delaware | 239 | 185 | 360 | 756 | 889 | -14.9 | 43.3 | 75.7 |
| District of Columbia | — | — | — | — | — | — | — | — |
| Florida | 4,212 | 4,104 | 4,348 | 13,434 | 15,009 | -10.5 | 37.1 | 44.3 |
| Georgia | 5,906 | 4,232 | 5,204 | 15,297 | 13,329 | 14.8 | 65.7 | 57.2 |
| Maryland | 2,360 | 2,102 | 2,203 | 7,168 | 6,951 | 3.1 | 58.4 | 57.7 |
| North Carolina | 5,755 | 4,408 | 5,377 | 15,102 | 15,379 | -1.8 | 59.3 | 56.0 |
| South Carolina | 2,680 | 2,317 | 2,435 | 7,665 | 7,165 | 7.0 | 34.5 | 34.7 |
| Virginia | 2,614 | 2,630 | 2,671 | 8,106 | 7,710 | 5.1 | 47.6 | 49.1 |
| West Virginia | 8,483 | 7,451 | 7,421 | 24,123 | 22,101 | 9.1 | 99.3 | 99.1 |
| **East South Central** | **18,254** | **16,605** | **18,309** | **54,297** | **53,519** | **1.5** | **67.4** | **65.6** |
| Alabama | 5,269 | 4,931 | 5,216 | 15,895 | 15,721 | 1.1 | 57.1 | 55.2 |
| Kentucky | 7,361 | 6,834 | 7,088 | 22,069 | 21,085 | 4.7 | 95.7 | 96.1 |
| Mississippi | 867 | 767 | 899 | 2,557 | 2,438 | 4.9 | 35.1 | 35.8 |
| Tennessee | 4,757 | 4,073 | 5,105 | 13,777 | 14,274 | -3.5 | 61.7 | 58.7 |
| **West South Central** | **14,966** | **14,998** | **14,960** | **48,108** | **49,496** | **-2.8** | **50.8** | **53.0** |
| Arkansas | 1,881 | 1,718 | 1,440 | 5,933 | 5,088 | 16.6 | 60.6 | 55.7 |
| Louisiana | 1,357 | 1,416 | 1,509 | 4,590 | 4,852 | -5.4 | 34.0 | 37.0 |
| Oklahoma | 2,390 | 2,377 | 2,662 | 7,440 | 8,297 | -10.3 | 65.3 | 71.9 |
| Texas | 9,338 | 9,487 | 9,350 | 30,145 | 31,258 | -3.6 | 50.2 | 52.5 |
| **Mountain** | **16,021** | **16,195** | **16,992** | **50,561** | **50,633** | **-.1** | **70.6** | **72.2** |
| Arizona | 2,879 | 2,706 | 2,676 | 8,558 | 8,168 | 4.8 | 44.4 | 43.1 |
| Colorado | 2,356 | 2,612 | 2,649 | 7,948 | 8,088 | -1.7 | 93.8 | 94.9 |
| Idaho | — | — | — | — | — | — | — | — |
| Montana | 1,490 | 1,319 | 1,464 | 4,258 | 4,153 | 2.5 | 60.9 | 65.1 |
| Nevada | 1,263 | 1,325 | 1,422 | 4,206 | 4,235 | -.7 | 68.4 | 69.6 |
| New Mexico | 2,350 | 2,275 | 2,231 | 7,004 | 6,297 | 11.2 | 90.4 | 89.8 |
| Utah | 2,224 | 2,639 | 2,617 | 7,987 | 8,308 | -3.9 | 94.6 | 95.4 |
| Wyoming | 3,460 | 3,319 | 3,934 | 10,601 | 11,384 | -6.9 | 98.2 | 97.7 |
| **Pacific Contiguous** | **810** | **937** | **1,122** | **2,771** | **3,105** | **-10.8** | **4.0** | **4.7** |
| California | — | — | — | — | — | — | — | — |
| Oregon | 270 | 252 | 325 | 880 | 839 | 4.8 | 5.9 | 6.4 |
| Washington | 540 | 686 | 797 | 1,891 | 2,266 | -16.5 | 6.2 | 8.6 |
| **Pacific Noncontiguous** | **17** | **15** | **16** | **49** | **58** | **-16.2** | **1.7** | **2.0** |
| Alaska | 17 | 15 | 16 | 49 | 58 | -16.2 | 4.0 | 4.2 |
| Hawaii | — | — | — | — | — | — | — | — |
| **U.S. Total** | **142,215** | **133,699** | **144,487** | **431,553** | **437,610** | **-1.4** | **55.6** | **57.8** |

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Negative generation denotes that electric power consumed for plant use exceeds gross generation. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •Coal includes lignite, bituminous coal, subbituminous coal, and anthracite. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 9. Electric Utility Net Generation from Petroleum by Census Division and State
(Million Kilowatthours)

| Census Division and State | March 1999 | February 1999 | March 1998 | Year to Date | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Petroleum Generation | | | Share of Total (percent) | |
| | | | | 1999 | 1998 | Difference (percent) | 1999 | 1998 |
| **New England** | **1,333** | **1,095** | **2,162** | **4,677** | **6,688** | **-30.1** | **32.8** | **36.5** |
| Connecticut | 850 | 1,030 | 873 | 2,941 | 2,472 | 19.0 | 52.7 | 74.3 |
| Maine | 215 | 92 | 4 | 595 | 197 | 201.5 | 53.0 | 30.5 |
| Massachusetts | NM | -217 | 1,170 | 556 | 3,676 | -84.9 | 22.4 | 42.2 |
| New Hampshire | 201 | 188 | 113 | 579 | 304 | 90.1 | 15.3 | 8.6 |
| Rhode Island | 1 | 1 | 1 | 3 | 2 | 51.1 | 100.0 | .3 |
| Vermont | NM | NM | NM | 3 | 35 | -91.4 | .2 | 2.7 |
| **Middle Atlantic** | **1,499** | **1,561** | **1,288** | **5,313** | **3,100** | **71.4** | **6.4** | **4.0** |
| New Jersey | 3 | 12 | 10 | 49 | 26 | 87.6 | .6 | .4 |
| New York | 1,036 | 1,384 | 1,053 | 4,371 | 2,640 | 65.6 | 15.1 | 9.6 |
| Pennsylvania | 460 | 164 | 225 | 892 | 434 | 105.6 | 2.0 | 1.0 |
| **East North Central** | **224** | **103** | **445** | **610** | **745** | **-18.0** | **.5** | **.6** |
| Illinois | 14 | 11 | 268 | 60 | 302 | -80.2 | .2 | 1.1 |
| Indiana | 103 | 17 | 70 | 163 | 234 | -30.1 | .6 | .8 |
| Michigan | 62 | 37 | 73 | 207 | 127 | 63.1 | 1.0 | .6 |
| Ohio | 33 | 21 | 22 | 97 | 56 | 74.7 | .3 | .1 |
| Wisconsin | 11 | 17 | 12 | 83 | 26 | 216.3 | .6 | .2 |
| **West North Central** | **110** | **88** | **39** | **329** | **171** | **92.3** | **.5** | **.3** |
| Iowa | NM | NM | 3 | 12 | 5 | 151.8 | .1 | .1 |
| Kansas | 26 | 8 | NM | 55 | 11 | 390.2 | .6 | .1 |
| Minnesota | 68 | 59 | 21 | 201 | 119 | 69.4 | 1.9 | 1.1 |
| Missouri | 8 | 18 | 6 | 44 | 17 | 160.8 | .2 | .1 |
| Nebraska | 1 | NM | 2 | 3 | 6 | -42.8 | * | .1 |
| North Dakota | 3 | 2 | 2 | 7 | 13 | -44.6 | .1 | .2 |
| South Dakota | * | * | * | 5 | 1 | 931.2 | .2 | * |
| **South Atlantic** | **3,986** | **3,824** | **3,252** | **11,543** | **6,482** | **78.1** | **7.1** | **4.1** |
| Delaware | 284 | 141 | 151 | 533 | 214 | 149.1 | 30.5 | 18.2 |
| District of Columbia | 1 | 2 | -1 | 4 | 3 | 15.6 | 100.0 | 100.0 |
| Florida | 2,944 | 3,015 | 2,454 | 8,717 | 5,407 | 61.2 | 24.1 | 16.0 |
| Georgia | 10 | 5 | 22 | 95 | 32 | 198.3 | .4 | .1 |
| Maryland | 427 | 389 | 348 | 1,094 | 473 | 131.3 | 8.9 | 3.9 |
| North Carolina | 15 | 12 | 21 | 89 | 44 | 102.0 | .3 | .2 |
| South Carolina | 13 | 4 | 24 | 51 | 31 | 63.1 | .2 | .2 |
| Virginia | 285 | 246 | 221 | 926 | 237 | 291.2 | 5.4 | 1.5 |
| West Virginia | 7 | 10 | 11 | 34 | 41 | -16.5 | .1 | .2 |
| **East South Central** | **625** | **640** | **709** | **2,091** | **1,483** | **41.0** | **2.6** | **1.8** |
| Alabama | 7 | 12 | 18 | 79 | 33 | 138.3 | .3 | .1 |
| Kentucky | 15 | 6 | 10 | 33 | 31 | 8.1 | .1 | .1 |
| Mississippi | 564 | 597 | 666 | 1,821 | 1,395 | 30.6 | 25.0 | 20.5 |
| Tennessee | 39 | 26 | 15 | 157 | 25 | 536.5 | .7 | .1 |
| **West South Central** | **136** | **88** | **150** | **357** | **270** | **32.3** | **.4** | **.3** |
| Arkansas | 17 | 5 | 2 | 48 | 7 | 541.0 | .5 | .1 |
| Louisiana | 109 | 64 | 131 | 257 | 229 | 12.0 | 1.9 | 1.7 |
| Oklahoma | * | * | * | 1 | * | NM | * | * |
| Texas | 10 | 18 | 17 | 52 | 33 | 58.7 | .1 | .1 |
| **Mountain** | **29** | **11** | **17** | **56** | **43** | **31.4** | **.1** | **.1** |
| Arizona | 4 | 1 | 8 | 9 | 14 | -32.1 | * | .1 |
| Colorado | NM | NM | 1 | 2 | 3 | -55.0 | * | * |
| Idaho | * | * | * | * | * | NM | * | * |
| Montana | 1 | 1 | 1 | 4 | 4 | 21.1 | .1 | .1 |
| Nevada | 8 | 1 | 2 | 12 | 4 | 175.6 | .2 | .1 |
| New Mexico | 9 | 2 | 1 | 13 | 4 | 279.3 | .2 | * |
| Utah | 3 | NM | 1 | 5 | 5 | .5 | .1 | .1 |
| Wyoming | 3 | 4 | 3 | 11 | 9 | 20.8 | .1 | .1 |
| **Pacific Contiguous** | **4** | **5** | **18** | **12** | **30** | **-61.9** | * | * |
| California | 3 | 3 | 17 | 10 | 28 | -65.6 | * | .1 |
| Oregon | * | 1 | * | 2 | 1 | 39.3 | * | * |
| Washington | * | * | 1 | * | 1 | NM | * | * |
| **Pacific Noncontiguous** | **655** | **660** | **601** | **1,897** | **1,746** | **8.7** | **65.8** | **61.3** |
| Alaska | NM | 79 | NM | 236 | 266 | -11.2 | 19.3 | 19.4 |
| Hawaii | 595 | 581 | 543 | 1,661 | 1,480 | 12.2 | 99.8 | 99.9 |
| **U.S. Total** | **8,600** | **8,074** | **8,682** | **26,885** | **20,758** | **29.5** | **3.5** | **2.7** |

* = For detailed data, the absolute value is less than 0.5; for percentage calculations, the absolute value is less than 0.05 percent.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Negative generation denotes that electric power consumed for plant use exceeds gross generation. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •Includes fuel oil Nos. 2, 4, 5, and 6, crude oil, kerosene, and petroleum coke. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 10. Electric Utility Net Generation from Gas by Census Division and State
(Million Kilowatthours)

| Census Division and State | March 1999 | February 1999 | March 1998 | Year to Date | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Gas Generation | | | Share of Total (percent) | |
| | | | | 1999 | 1998 | Difference (percent) | 1999 | 1998 |
| **New England** | **54** | **5** | **400** | **74** | **1,432** | **-94.8** | **0.5** | **7.8** |
| Connecticut | 10 | * | 2 | 12 | 122 | -89.9 | .2 | 3.7 |
| Maine | — | — | — | — | — | — | — | — |
| Massachusetts | NM | NM | 150 | 60 | 505 | -88.0 | 2.4 | 5.8 |
| New Hampshire | 2 | * | — | 2 | * | NM | * | * |
| Rhode Island | — | — | 249 | — | 804 | — | — | 99.7 |
| Vermont | — | — | — | — | * | NM | — | * |
| **Middle Atlantic** | **1,329** | **845** | **1,175** | **3,037** | **3,851** | **-21.1** | **3.7** | **5.0** |
| New Jersey | 66 | 27 | 158 | 187 | 229 | -18.1 | 2.1 | 3.6 |
| New York | 1,238 | 810 | 984 | 2,793 | 3,546 | -21.2 | 9.6 | 12.9 |
| Pennsylvania | 25 | 9 | 34 | 56 | 76 | -26.0 | .1 | .2 |
| **East North Central** | **504** | **290** | **617** | **1,244** | **1,414** | **-12.1** | **.9** | **1.1** |
| Illinois | 207 | 77 | 350 | 443 | 914 | -51.6 | 1.3 | 3.3 |
| Indiana | 24 | 16 | 35 | 82 | 56 | 46.5 | .3 | .2 |
| Michigan | 165 | 123 | 128 | 473 | 263 | 80.0 | 2.2 | 1.2 |
| Ohio | 67 | 27 | 24 | 118 | 38 | 210.2 | .3 | .1 |
| Wisconsin | 41 | 47 | 79 | 129 | 144 | -10.6 | 1.0 | 1.2 |
| **West North Central** | **313** | **132** | **121** | **618** | **242** | **155.9** | **.9** | **.4** |
| Iowa | 13 | 15 | 15 | 37 | 43 | -14.4 | .4 | .5 |
| Kansas | 214 | NM | NM | 374 | 126 | 197.8 | 3.8 | 1.3 |
| Minnesota | NM | NM | NM | 69 | 29 | 136.3 | .6 | .3 |
| Missouri | 21 | 24 | 12 | 88 | 29 | 206.7 | .5 | .2 |
| Nebraska | 9 | 3 | 4 | 16 | 8 | 86.5 | .2 | .1 |
| North Dakota | * | * | * | * | * | NM | * | * |
| South Dakota | 18 | 9 | 2 | 34 | 7 | 424.5 | 1.4 | .3 |
| **South Atlantic** | **2,732** | **1,989** | **2,341** | **6,956** | **6,757** | **2.9** | **4.3** | **4.3** |
| Delaware | 222 | 104 | 49 | 457 | 72 | 538.7 | 26.2 | 6.1 |
| District of Columbia | — | — | — | — | — | — | — | — |
| Florida | 2,235 | 1,656 | 2,108 | 5,760 | 6,308 | -8.7 | 15.9 | 18.6 |
| Georgia | 17 | 2 | 7 | 20 | 19 | 6.0 | .1 | .1 |
| Maryland | 23 | 13 | 34 | 80 | 68 | 16.7 | .6 | .6 |
| North Carolina | 1 | * | 7 | 3 | 7 | -52.3 | * | * |
| South Carolina | 2 | 1 | 6 | 4 | 8 | -47.2 | * | * |
| Virginia | 229 | 210 | 126 | 623 | 267 | 133.1 | 3.7 | 1.7 |
| West Virginia | 3 | 2 | 3 | 8 | 8 | 9.4 | * | * |
| **East South Central** | **345** | **463** | **267** | **1,299** | **613** | **111.9** | **1.6** | **.8** |
| Alabama | 90 | 64 | 34 | 217 | 80 | 170.2 | .8 | .3 |
| Kentucky | 11 | NM | 27 | 56 | 46 | 20.3 | .2 | .2 |
| Mississippi | 243 | 391 | 207 | 1,026 | 486 | 111.0 | 14.1 | 7.1 |
| Tennessee | — | — | — | — | — | — | — | — |
| **West South Central** | **11,487** | **7,861** | **10,478** | **29,116** | **23,687** | **22.9** | **30.7** | **25.4** |
| Arkansas | 208 | 131 | 124 | 391 | 160 | 144.2 | 4.0 | 1.8 |
| Louisiana | 2,044 | 1,639 | 1,480 | 5,674 | 3,588 | 58.1 | 42.0 | 27.4 |
| Oklahoma | 1,253 | 749 | 960 | 3,063 | 2,078 | 47.4 | 26.9 | 18.0 |
| Texas | 7,982 | 5,342 | 7,915 | 19,988 | 17,861 | 11.9 | 33.3 | 30.0 |
| **Mountain** | **1,017** | **919** | **674** | **2,944** | **1,982** | **48.6** | **4.1** | **2.8** |
| Arizona | 183 | 166 | 54 | 573 | 193 | 196.2 | 3.0 | 1.0 |
| Colorado | 114 | 106 | 31 | 257 | 93 | 174.4 | 3.0 | 1.1 |
| Idaho | — | — | — | — | — | — | — | — |
| Montana | * | * | 3 | 5 | 3 | 69.8 | .1 | * |
| Nevada | 445 | 396 | 283 | 1,333 | 996 | 33.8 | 21.7 | 16.4 |
| New Mexico | 242 | 221 | 295 | 694 | 652 | 6.4 | 9.0 | 9.3 |
| Utah | NM | NM | NM | 80 | 24 | 234.9 | 1.0 | .3 |
| Wyoming | 1 | 1 | * | 3 | 21 | -83.1 | * | .2 |
| **Pacific Contiguous** | **1,920** | **1,939** | **2,483** | **5,938** | **7,310** | **-18.8** | **8.6** | **11.2** |
| California | 1,893 | NM | 2,295 | 5,608 | 6,726 | -16.6 | 23.5 | 25.7 |
| Oregon | 27 | 111 | 178 | 324 | 531 | -38.9 | 2.2 | 4.1 |
| Washington | 1 | 3 | 10 | 6 | 54 | -88.7 | * | .2 |
| **Pacific Noncontiguous** | **242** | **247** | **230** | **753** | **732** | **2.9** | **26.1** | **25.7** |
| Alaska | 242 | 247 | 230 | 753 | 732 | 2.9 | 61.7 | 53.5 |
| Hawaii | — | — | — | — | — | — | — | — |
| **U.S. Total** | **19,944** | **14,690** | **18,787** | **51,978** | **48,018** | **8.2** | **6.7** | **6.3** |

* = For detailed data, the absolute value is less than 0.5; for percentage calculations, the absolute value is less than 0.05 percent.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Negative generation denotes that electric power consumed for plant use exceeds gross generation. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 11. Electric Utility Hydroelectric Net Generation by Census Division and State
(Million Kilowatthours)

| Census Division and State | March 1999 | February 1999 | March 1998 | Year to Date | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Hydroelectric Generation | | | Share of Total (percent) | |
| | | | | 1999 | 1998 | Difference (percent) | 1999 | 1998 |
| **New England** | **440** | **354** | **562** | **1,075** | **1,446** | **-25.7** | **7.5** | **7.9** |
| Connecticut | 61 | 43 | 61 | 147 | 150 | -1.8 | 2.6 | 4.5 |
| Maine | 223 | 172 | 198 | 528 | 449 | 17.7 | 47.0 | 69.5 |
| Massachusetts | 74 | 58 | 60 | 166 | 186 | -11.0 | 6.7 | 2.1 |
| New Hampshire | 36 | 33 | 146 | 99 | 374 | -73.6 | 2.6 | 10.5 |
| Rhode Island | — | — | — | — | — | — | — | — |
| Vermont | NM | NM | 97 | 136 | 288 | -52.9 | 10.4 | 22.4 |
| **Middle Atlantic** | **2,387** | **2,052** | **2,971** | **6,284** | **8,084** | **-22.3** | **7.6** | **10.5** |
| New Jersey | -10 | -11 | -12 | -33 | -35 | NM | -.4 | -.6 |
| New York | 2,164 | 1,888 | 2,650 | 5,803 | 7,316 | -20.7 | 20.0 | 26.5 |
| Pennsylvania | 233 | 175 | 333 | 514 | 803 | -36.0 | 1.1 | 1.9 |
| **East North Central** | **283** | **242** | **350** | **682** | **899** | **-24.1** | **.5** | **.7** |
| Illinois | 2 | 2 | 3 | 6 | 11 | -47.0 | * | * |
| Indiana | 37 | 42 | 43 | 109 | 116 | -5.5 | .4 | .4 |
| Michigan | 72 | 65 | 66 | 164 | 193 | -15.3 | .8 | .9 |
| Ohio | 30 | 38 | 32 | 91 | 83 | 10.6 | .3 | .2 |
| Wisconsin | 141 | 96 | 206 | 311 | 496 | -37.2 | 2.4 | 4.0 |
| **West North Central** | **1,265** | **1,077** | **1,252** | **3,387** | **3,416** | **-.8** | **5.2** | **5.3** |
| Iowa | 91 | 106 | 75 | 272 | 217 | 25.7 | 3.0 | 2.4 |
| Kansas | — | — | — | — | — | — | — | — |
| Minnesota | 56 | NM | 74 | 139 | 159 | -12.3 | 1.3 | 1.5 |
| Missouri | 212 | 200 | 324 | 489 | 659 | -25.8 | 2.7 | 3.7 |
| Nebraska | 133 | 109 | 139 | 355 | 390 | -9.0 | 5.1 | 5.5 |
| North Dakota | 210 | 215 | 171 | 643 | 562 | 14.5 | 7.9 | 7.0 |
| South Dakota | 564 | 411 | 469 | 1,489 | 1,430 | 4.2 | 59.3 | 62.2 |
| **South Atlantic** | **921** | **1,003** | **2,304** | **2,860** | **6,744** | **-57.6** | **1.8** | **4.3** |
| Delaware | — | — | — | — | — | — | — | — |
| District of Columbia | — | — | — | — | — | — | — | — |
| Florida | 21 | 23 | 10 | 63 | 35 | 79.2 | .2 | .1 |
| Georgia | 262 | 289 | 679 | 805 | 2,078 | -61.3 | 3.5 | 8.9 |
| Maryland | 257 | 184 | 308 | 588 | 802 | -26.7 | 4.8 | 6.6 |
| North Carolina | 227 | 299 | 628 | 834 | 1,791 | -53.4 | 3.3 | 6.5 |
| South Carolina | 111 | 174 | 472 | 480 | 1,485 | -67.7 | 2.2 | 7.2 |
| Virginia | -6 | -1 | 153 | -26 | 410 | NM | -.2 | 2.6 |
| West Virginia | 50 | 35 | 55 | 115 | 143 | -19.4 | .5 | .6 |
| **East South Central** | **2,184** | **2,048** | **2,723** | **6,644** | **8,057** | **-17.5** | **8.3** | **9.9** |
| Alabama | 1,093 | 1,090 | 1,529 | 3,425 | 4,564 | -25.0 | 12.3 | 16.0 |
| Kentucky | 316 | 276 | 315 | 897 | 772 | 16.3 | 3.9 | 3.5 |
| Mississippi | — | — | — | — | — | — | — | — |
| Tennessee | 775 | 681 | 878 | 2,322 | 2,721 | -14.7 | 10.4 | 11.2 |
| **West South Central** | **783** | **763** | **1,002** | **2,111** | **2,764** | **-23.6** | **2.2** | **3.0** |
| Arkansas | 271 | 331 | 404 | 870 | 1,037 | -16.1 | 8.9 | 11.3 |
| Louisiana | — | — | — | — | — | — | — | — |
| Oklahoma | 370 | 326 | 384 | 881 | 1,164 | -24.3 | 7.7 | 10.1 |
| Texas | 142 | 106 | 214 | 359 | 564 | -36.2 | .6 | .9 |
| **Mountain** | **3,551** | **3,126** | **3,399** | **10,092** | **9,928** | **1.7** | **14.1** | **14.2** |
| Arizona | 789 | 684 | 1,064 | 2,257 | 3,104 | -27.3 | 11.7 | 16.4 |
| Colorado | 115 | 75 | 94 | 270 | 336 | -19.8 | 3.2 | 3.9 |
| Idaho | 1,339 | 1,153 | 1,006 | 3,691 | 2,790 | 32.3 | 100.0 | 100.0 |
| Montana | 838 | 882 | 684 | 2,723 | 2,221 | 22.6 | 39.0 | 34.8 |
| Nevada | 242 | 162 | 268 | 596 | 850 | -29.9 | 9.7 | 14.0 |
| New Mexico | 23 | 14 | 27 | 38 | 63 | -39.6 | .5 | .9 |
| Utah | 128 | 103 | 116 | 333 | 320 | 3.9 | 3.9 | 3.7 |
| Wyoming | 79 | 53 | 141 | 184 | 243 | -24.5 | 1.7 | 2.1 |
| **Pacific Contiguous** | **17,837** | **15,838** | **15,587** | **50,083** | **44,860** | **11.6** | **72.4** | **68.4** |
| California | 3,859 | 3,591 | 4,478 | 10,272 | 11,355 | -9.5 | 43.0 | 43.4 |
| Oregon | 4,839 | 4,163 | 3,992 | 13,654 | 11,725 | 16.5 | 91.9 | 89.5 |
| Washington | 9,139 | 8,084 | 7,117 | 26,156 | 21,780 | 20.1 | 86.1 | 82.8 |
| **Pacific Noncontiguous** | **63** | **55** | **102** | **186** | **313** | **-40.4** | **6.5** | **11.0** |
| Alaska | NM | NM | NM | 182 | 312 | -41.6 | 15.0 | 22.8 |
| Hawaii | 1 | 1 | * | 4 | 1 | 398.6 | .2 | .1 |
| **U.S. Total** | **29,716** | **26,559** | **30,252** | **83,404** | **86,511** | **-3.6** | **10.7** | **11.4** |

* = For detailed data, the absolute value is less than 0.5; for percentage calculations, the absolute value is less than 0.05 percent.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Negative generation denotes that electric power consumed for plant use exceeds gross generation. •Pumping energy used at pumped storage plants for March 1999 was 1,941 million kilowatthours. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 12. Electric Utility Nuclear-Powered Net Generation by Census Division and State
(Million Kilowatthours)

| Census Division and State | March 1999 | February 1999 | March 1998 | Year to Date | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Nuclear Generation | | | Share of Total (percent) | |
| | | | | 1999 | 1998 | Difference (percent) | 1999 | 1998 |
| **New England** | **2,408** | **2,349** | **1,557** | **7,184** | **4,350** | **65.2** | **50.3** | **23.7** |
| Connecticut | 835 | 772 | −15 | 2,376 | −39 | NM | 42.6 | −1.2 |
| Maine | — | — | — | — | — | — | — | — |
| Massachusetts | 467 | 442 | 496 | 1,404 | 1,434 | −2.1 | 56.5 | 16.5 |
| New Hampshire | 714 | 779 | 863 | 2,272 | 2,031 | 11.9 | 60.1 | 57.3 |
| Rhode Island | — | — | — | — | — | — | — | — |
| Vermont | 392 | 355 | 213 | 1,132 | 924 | 22.5 | 86.5 | 71.7 |
| **Middle Atlantic** | **10,732** | **11,285** | **9,316** | **35,302** | **28,408** | **24.3** | **42.5** | **36.8** |
| New Jersey | 1,945 | 2,162 | 1,442 | 6,960 | 4,882 | 42.6 | 78.1 | 77.8 |
| New York | 3,236 | 3,320 | 2,942 | 10,289 | 8,440 | 21.9 | 35.4 | 30.6 |
| Pennsylvania | 5,550 | 5,803 | 4,933 | 18,052 | 15,086 | 19.7 | 40.0 | 34.8 |
| **East North Central** | **10,052** | **8,546** | **6,849** | **28,576** | **19,786** | **44.4** | **21.5** | **15.6** |
| Illinois | 6,296 | 5,220 | 3,523 | 18,021 | 10,012 | 80.0 | 51.5 | 35.8 |
| Indiana | — | — | — | — | — | — | — | — |
| Michigan | 1,415 | 1,270 | 1,384 | 3,943 | 3,567 | 10.5 | 18.1 | 16.8 |
| Ohio | 1,323 | 1,373 | 1,494 | 4,209 | 4,438 | −5.2 | 11.9 | 11.8 |
| Wisconsin | 1,018 | 683 | 447 | 2,404 | 1,769 | 35.9 | 18.6 | 14.2 |
| **West North Central** | **4,324** | **3,875** | **3,576** | **12,335** | **10,776** | **14.5** | **18.9** | **16.6** |
| Iowa | 392 | 356 | 388 | 1,137 | 1,076 | 5.6 | 12.6 | 11.7 |
| Kansas | 887 | 793 | 889 | 2,557 | 2,582 | −1.0 | 26.2 | 26.9 |
| Minnesota | 1,250 | 1,109 | 943 | 3,463 | 2,730 | 26.9 | 32.1 | 25.1 |
| Missouri | 863 | 777 | 733 | 2,509 | 2,018 | 24.3 | 14.0 | 11.3 |
| Nebraska | 933 | 840 | 624 | 2,670 | 2,369 | 12.7 | 38.1 | 33.6 |
| North Dakota | — | — | — | — | — | — | — | — |
| South Dakota | — | — | — | — | — | — | — | — |
| **South Atlantic** | **15,193** | **16,213** | **16,260** | **49,459** | **48,002** | **3.0** | **30.4** | **30.7** |
| Delaware | — | — | — | — | — | — | — | — |
| District of Columbia | — | — | — | — | — | — | — | — |
| Florida | 2,656 | 2,607 | 2,890 | 8,191 | 7,129 | 14.9 | 22.6 | 21.0 |
| Georgia | 1,566 | 2,557 | 2,228 | 7,060 | 7,835 | −9.9 | 30.3 | 33.6 |
| Maryland | 881 | 1,170 | 1,295 | 3,348 | 3,761 | −11.0 | 27.3 | 31.2 |
| North Carolina | 2,747 | 3,205 | 3,538 | 9,456 | 10,224 | −7.5 | 37.1 | 37.3 |
| South Carolina | 4,840 | 4,353 | 4,028 | 14,006 | 11,959 | 17.1 | 63.1 | 57.9 |
| Virginia | 2,502 | 2,321 | 2,281 | 7,398 | 7,095 | 4.3 | 43.4 | 45.1 |
| West Virginia | — | — | — | — | — | — | — | — |
| **East South Central** | **5,083** | **5,311** | **6,040** | **16,173** | **17,866** | **−9.5** | **20.1** | **21.9** |
| Alabama | 2,670 | 2,631 | 2,728 | 8,199 | 8,098 | 1.2 | 29.5 | 28.4 |
| Kentucky | — | — | — | — | — | — | — | — |
| Mississippi | 859 | 633 | 871 | 1,884 | 2,489 | −24.3 | 25.9 | 36.6 |
| Tennessee | 1,553 | 2,047 | 2,441 | 6,090 | 7,279 | −16.3 | 27.3 | 30.0 |
| **West South Central** | **4,809** | **4,746** | **5,432** | **15,058** | **17,115** | **−12.0** | **15.9** | **18.3** |
| Arkansas | 1,296 | 598 | 714 | 2,545 | 2,845 | −10.6 | 26.0 | 31.1 |
| Louisiana | 552 | 973 | 1,527 | 2,984 | 4,444 | −32.9 | 22.1 | 33.9 |
| Oklahoma | — | — | — | — | — | — | — | — |
| Texas | 2,961 | 3,174 | 3,192 | 9,529 | 9,825 | −3.0 | 15.9 | 16.5 |
| **Mountain** | **2,544** | **2,535** | **2,258** | **7,890** | **7,488** | **5.4** | **11.0** | **10.7** |
| Arizona | 2,544 | 2,535 | 2,258 | 7,890 | 7,488 | 5.4 | 40.9 | 39.5 |
| Colorado | — | — | — | — | — | — | — | — |
| Idaho | — | — | — | — | — | — | — | — |
| Montana | — | — | — | — | — | — | — | — |
| Nevada | — | — | — | — | — | — | — | — |
| New Mexico | — | — | — | — | — | — | — | — |
| Utah | — | — | — | — | — | — | — | — |
| Wyoming | — | — | — | — | — | — | — | — |
| **Pacific Contiguous** | **3,434** | **2,374** | **2,423** | **9,097** | **8,808** | **3.3** | **13.2** | **13.4** |
| California | 2,684 | 1,673 | 1,892 | 6,827 | 6,684 | 2.1 | 28.6 | 25.6 |
| Oregon | — | — | — | — | — | — | — | — |
| Washington | 750 | 702 | 531 | 2,270 | 2,124 | 6.9 | 7.5 | 8.1 |
| **Pacific Noncontiguous** | — | — | — | — | — | — | — | — |
| Alaska | — | — | — | — | — | — | — | — |
| Hawaii | — | — | — | — | — | — | — | — |
| **U.S. Total** | **58,578** | **57,235** | **53,711** | **181,074** | **162,599** | **11.4** | **23.3** | **21.5** |

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Negative generation denotes that electric power consumed for plant use exceeds gross generation. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 13. Electric Utility Net Generation from Other Energy Sources by Census Division and State
(Million Kilowatthours)

| Census Division and State | March 1999 | February 1999 | March 1998 | Year to Date | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Other Generation | | | Share of Total (percent) | |
| | | | | 1999 | 1998 | Difference (percent) | 1999 | 1998 |
| **New England** | **36** | **48** | **50** | **140** | **140** | * | **1.0** | **0.8** |
| Connecticut | 29 | 38 | 43 | 102 | 100 | 2.7 | 1.8 | 3.0 |
| Maine | * | * | — | * | — | NM | * | — |
| Massachusetts | — | — | — | — | — | — | — | — |
| New Hampshire | — | — | — | — | — | — | — | — |
| Rhode Island | — | — | — | — | — | — | — | — |
| Vermont | 6 | 10 | 7 | 37 | 40 | −6.7 | 2.9 | 3.1 |
| **Middle Atlantic** | — | — | — | * | * | NM | * | * |
| New Jersey | — | — | — | — | — | — | — | — |
| New York | — | — | — | * | * | NM | * | * |
| Pennsylvania | — | — | — | — | — | — | — | — |
| **East North Central** | **31** | **25** | **41** | **84** | **112** | **−25.0** | **.1** | **.1** |
| Illinois | — | — | — | — | — | — | — | — |
| Indiana | — | — | — | — | — | — | — | — |
| Michigan | — | — | — | — | — | — | — | — |
| Ohio | — | — | — | — | — | — | — | — |
| Wisconsin | 31 | 25 | 41 | 84 | 112 | −25.0 | .7 | .9 |
| **West North Central** | **45** | **38** | **38** | **117** | **117** | **.1** | **.2** | **.2** |
| Iowa | 1 | 2 | 1 | 4 | 3 | 24.4 | * | * |
| Kansas | — | — | — | — | — | — | — | — |
| Minnesota | 38 | 30 | 32 | 100 | 101 | −.9 | .9 | .9 |
| Missouri | 6 | 6 | 5 | 13 | 13 | 1.7 | .1 | .1 |
| Nebraska | — | — | — | — | — | — | — | — |
| North Dakota | — | — | — | — | — | — | — | — |
| South Dakota | — | — | — | — | — | — | — | — |
| **South Atlantic** | — | — | — | — | — | — | — | — |
| Delaware | — | — | — | — | — | — | — | — |
| District of Columbia | — | — | — | — | — | — | — | — |
| Florida | — | — | — | — | — | — | — | — |
| Georgia | — | — | — | — | — | — | — | — |
| Maryland | — | — | — | — | — | — | — | — |
| North Carolina | — | — | — | — | — | — | — | — |
| South Carolina | — | — | — | — | — | — | — | — |
| Virginia | — | — | — | — | — | — | — | — |
| West Virginia | — | — | — | — | — | — | — | — |
| **East South Central** | — | — | — | — | — | — | — | — |
| Alabama | — | — | — | — | — | — | — | — |
| Kentucky | — | — | — | — | — | — | — | — |
| Mississippi | — | — | — | — | — | — | — | — |
| Tennessee | — | — | — | — | — | — | — | — |
| **West South Central** | * | * | * | * | * | NM | * | * |
| Arkansas | — | — | — | — | — | — | — | — |
| Louisiana | — | — | — | — | — | — | — | — |
| Oklahoma | — | — | — | — | — | — | — | — |
| Texas | * | * | * | * | * | NM | * | * |
| **Mountain** | **12** | **10** | **17** | **35** | **47** | **−26.3** | * | **.1** |
| Arizona | — | — | — | — | — | — | — | — |
| Colorado | — | — | — | — | — | — | — | — |
| Idaho | — | — | — | — | — | — | — | — |
| Montana | — | — | — | — | — | — | — | — |
| Nevada | — | — | — | — | — | — | — | — |
| New Mexico | — | — | — | — | — | — | — | — |
| Utah | 12 | 10 | 17 | 35 | 47 | −26.3 | .4 | .5 |
| Wyoming | — | — | — | — | — | — | — | — |
| **Pacific Contiguous** | **411** | **376** | **510** | **1,236** | **1,437** | **−14.0** | **1.8** | **2.2** |
| California | 398 | 353 | 480 | 1,170 | 1,348 | −13.2 | 4.9 | 5.2 |
| Oregon | — | — | — | — | — | — | — | — |
| Washington | 12 | 23 | 31 | 66 | 89 | −25.7 | .2 | .3 |
| **Pacific Noncontiguous** | — | — | — | — | — | — | — | — |
| Alaska | — | — | — | — | — | — | — | — |
| Hawaii | — | — | — | — | — | — | — | — |
| **U.S. Total** | **535** | **498** | **656** | **1,612** | **1,854** | **−13.0** | **.2** | **.2** |

* = For detailed data, the absolute value is less than 0.5; for percentage calculations, the absolute value is less than 0.05 percent.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Negative generation denotes that electric power consumed for plant use exceeds gross generation. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •Other energy sources include geothermal, wood, wind, waste, and solar. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

# U.S. Electric Utility Consumption of Fossil Fuels

## Table 14. U.S. Electric Utility Consumption of Fossil Fuels, 1989 Through March 1999

| Period | Coal (thousand short tons) | | | | Petroleum (thousand barrels) | | | Petroleum Coke (thousand short tons) | Gas (thousand Mcf) |
|---|---|---|---|---|---|---|---|---|---|
| | Anthracite[1] | Bituminous[2] | Lignite | Total | Light | Heavy | Total | | |
| **1989** | **1,049** | **688,504** | **77,335** | **766,888** | **25,491** | **241,960** | **267,451** | **517** | **2,787,012** |
| **1990** | **1,031** | **694,317** | **78,201** | **773,549** | **14,823** | **181,231** | **196,054** | **819** | **2,787,332** |
| **1991** | **994** | **691,275** | **79,999** | **772,268** | **13,729** | **171,157** | **184,886** | **722** | **2,789,014** |
| **1992** | **986** | **698,626** | **80,248** | **779,860** | **11,556** | **135,779** | **147,335** | **999** | **2,765,608** |
| **1993** | **951** | **732,736** | **79,821** | **813,508** | **13,168** | **149,287** | **162,454** | **1220** | **2,682,440** |
| **1994** | **1,123** | **737,102** | **79,045** | **817,270** | **16,338** | **134,666** | **151,004** | **875** | **2,987,146** |
| **1995** | **978** | **749,951** | **78,078** | **829,007** | **15,565** | **86,584** | **102,150** | **761** | **3,196,507** |
| **1996** | **1,009** | **795,252** | **78,421** | **874,681** | **16,892** | **96,382** | **113,274** | **681** | **2,732,107** |
| **1997** | | | | | | | | | |
| January | 97 | 74,109 | 7,082 | 81,288 | 1,708 | 11,944 | 13,652 | 56 | 139,036 |
| February | 86 | 61,786 | 6,204 | 68,076 | 861 | 6,282 | 7,143 | 55 | 143,185 |
| March | 89 | 63,573 | 5,728 | 69,389 | 852 | 6,050 | 6,902 | 35 | 189,590 |
| April | 93 | 60,372 | 4,831 | 65,296 | 1,060 | 5,121 | 6,181 | 103 | 193,416 |
| May | 72 | 62,201 | 6,129 | 68,402 | 967 | 6,124 | 7,091 | 135 | 231,548 |
| June | 75 | 67,036 | 6,852 | 73,963 | 1,397 | 9,707 | 11,104 | 144 | 297,424 |
| July | 91 | 77,514 | 7,122 | 84,727 | 2,605 | 12,502 | 15,107 | 144 | 429,286 |
| August | 82 | 75,403 | 7,146 | 82,631 | 1,372 | 10,808 | 12,180 | 160 | 391,090 |
| September | 85 | 69,710 | 6,537 | 76,332 | 1,053 | 11,005 | 12,058 | 161 | 332,781 |
| October | 88 | 69,729 | 6,415 | 76,232 | 1,118 | 10,237 | 11,354 | 140 | 244,394 |
| November | 67 | 66,904 | 6,392 | 73,362 | 1,053 | 9,647 | 10,700 | 135 | 179,723 |
| December | 89 | 73,486 | 7,086 | 80,661 | 1,110 | 10,564 | 11,674 | 132 | 196,980 |
| **Total** | **1,013** | **821,823** | **77,524** | **900,361** | **15,157** | **109,989** | **125,146** | **1400** | **2,968,453** |
| **1998** | | | | | | | | | |
| January | 84 | 72,384 | 7,051 | 79,520 | 1,062 | 9,014 | 10,076 | 156 | 171,149 |
| February | 75 | 63,061 | 5,960 | 69,097 | 831 | 8,185 | 9,016 | 122 | 133,757 |
| March | 84 | 65,942 | 5,791 | 71,817 | 1,215 | 12,707 | 13,921 | 125 | 194,258 |
| April | 75 | 61,064 | 5,335 | 66,474 | 994 | 9,688 | 10,682 | 141 | 190,201 |
| May | 83 | 66,544 | 6,240 | 72,867 | 2,046 | 13,363 | 15,409 | 146 | 290,368 |
| June | 74 | 72,397 | 6,545 | 79,016 | 3,183 | 16,802 | 19,984 | 167 | 378,607 |
| July | 70 | 79,798 | 7,321 | 87,189 | 3,448 | 19,254 | 22,702 | 176 | 449,354 |
| August | 58 | 79,823 | 7,183 | 87,064 | 3,189 | 18,754 | 21,943 | 165 | 456,960 |
| September | 52 | 71,635 | 6,391 | 78,078 | 2,670 | 14,621 | 17,292 | 156 | 381,075 |
| October | 74 | 66,548 | 6,785 | 73,407 | 1,005 | 10,627 | 11,632 | 144 | 246,171 |
| November | 75 | 63,204 | 6,173 | 69,452 | 1,019 | 10,628 | 11,647 | 141 | 177,596 |
| December | 61 | 69,695 | 7,131 | 76,887 | 1,380 | 12,930 | 14,310 | 130 | 188,557 |
| **Total** | **867** | **832,094** | **77,906** | **910,867** | **22,041** | **156,573** | **178,614** | **1769** | **3,258,054** |
| **1999** | | | | | | | | | |
| January | 58 | 71,891 | 6,842 | 78,792 | 2,411 | 14,327 | 16,739 | 130 | 178,906 |
| February | 61 | 61,507 | 5,921 | 67,489 | 905 | 12,128 | 13,034 | 108 | 151,958 |
| March | 71 | 65,536 | 5,314 | 70,922 | 1,119 | 12,601 | 13,719 | 137 | 206,430 |
| **Total** | **190** | **198,935** | **18,077** | **217,202** | **4,435** | **39,056** | **43,492** | **375** | **537,294** |
| **Year to Date** | | | | | | | | | |
| **1999** | **190** | **198,935** | **18,077** | **217,202** | **4,435** | **39,056** | **43,492** | **375** | **537,294** |
| **1998** | **244** | **201,386** | **18,803** | **220,433** | **3,108** | **29,905** | **33,013** | **404** | **499,164** |
| **1997** | **271** | **199,468** | **19,014** | **218,753** | **3,421** | **24,276** | **27,697** | **146** | **471,810** |

1 Includes anthracite silt stored off-site.
2 Includes subbituminous coal.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final--see Technical Notes for adjustment methodology. Values for 1997 and prior years are final. •Totals may not equal sum of components because of independent rounding. •Mcf=thousand cubic feet. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report," and predecessor forms.

## Table 15. Electric Utility Consumption of Coal by NERC Region and Hawaii
(Thousand Short Tons)

| NERC Region and Hawaii | March 1999 | February 1999 | March 1998 | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 | 1998 | Difference (percent) |
| ECAR | 17,879 | 16,762 | 17,924 | 53,797 | 54,103 | -0.6 |
| ERCOT | 5,048 | 5,663 | 5,327 | 17,301 | 17,856 | -3.1 |
| MAAC | 3,611 | 3,124 | 3,657 | 10,491 | 10,932 | -4.0 |
| MAIN | 6,073 | 5,816 | 5,733 | 18,421 | 18,345 | .4 |
| MAPP (U.S.) | 6,599 | 6,297 | 7,411 | 20,490 | 21,772 | -5.9 |
| NPCC (U.S.) | 954 | 1,040 | 1,219 | 3,299 | 3,863 | -14.6 |
| SERC | 12,818 | 10,688 | 12,168 | 36,160 | 35,439 | 2.0 |
| FRCC | 1,459 | 1,543 | 1,604 | 4,876 | 5,646 | NM |
| SPP | 7,662 | 7,484 | 7,548 | 24,420 | 25,073 | -2.6 |
| WSCC (U.S.) | 8,804 | 9,058 | 9,211 | 27,905 | 27,346 | 2.0 |
| **Contiguous U.S.** | **70,906** | **67,475** | **71,801** | **217,158** | **220,375** | **-1.5** |
| ASCC | 16 | 13 | 16 | 44 | 58 | -24.7 |
| Hawaii | — | — | — | — | — | — |
| **U.S. Total** | **70,922** | **67,489** | **71,817** | **217,202** | **220,433** | **-1.5** |

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •Coal includes lignite, bituminous coal, subbituminous coal, and anthracite. •See Glossary for explanation of acronyms. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 16. Electric Utility Consumption of Petroleum by NERC Region and Hawaii
(Thousand Barrels)

| NERC Region and Hawaii | March 1999 | February 1999 | March 1998 | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 | 1998 | Difference (percent) |
| ECAR | 299 | 182 | 270 | 920 | 612 | 50.2 |
| ERCOT | 15 | 25 | 32 | 83 | 60 | 38.3 |
| MAAC | 1,877 | 1,136 | 1,222 | 4,240 | 1,900 | 123.1 |
| MAIN | 35 | 44 | 479 | 258 | 563 | -54.2 |
| MAPP (U.S.) | 26 | 19 | 32 | 126 | 92 | 36.7 |
| NPCC (U.S.) | 4,391 | 4,869 | 5,289 | 16,156 | 15,386 | 5.0 |
| SERC | 587 | 480 | 593 | 2,378 | 774 | 207.2 |
| FRCC | 4,308 | 4,135 | 3,636 | 12,674 | 7,835 | NM |
| SPP | 1,052 | 1,065 | 1,271 | 3,381 | 2,641 | 28.0 |
| WSCC (U.S.) | 65 | 29 | 68 | 130 | 143 | -9.2 |
| **Contiguous U.S.** | **12,654** | **11,982** | **12,891** | **40,345** | **30,007** | **34.5** |
| ASCC | 86 | 129 | 99 | 389 | 435 | -10.5 |
| Hawaii | 979 | 923 | 932 | 2,757 | 2,572 | 7.2 |
| **U.S. Total** | **13,719** | **13,034** | **13,921** | **43,491** | **33,013** | **31.7** |

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •See Glossary for explanation of acronyms. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 17. Electric Utility Consumption of Gas by NERC Region and Hawaii
(Million Cubic Feet)

| NERC Region and Hawaii | March 1999 | February 1999 | March 1998 | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 | 1998 | Difference (percent) |
| ECAR | 5,386 | 3,694 | 4,803 | 13,959 | 11,302 | 23.5 |
| ERCOT | 63,670 | 41,039 | 63,896 | 155,232 | 144,508 | 7.4 |
| MAAC | 2,926 | 1,453 | 3,076 | 7,185 | 5,206 | 38.0 |
| MAIN | 3,451 | 2,067 | 5,071 | 8,541 | 13,202 | -35.3 |
| MAPP (U.S.) | 1,023 | 561 | 616 | 2,470 | 1,580 | 56.4 |
| NPCC (U.S.) | 13,401 | 8,497 | 13,891 | 30,146 | 50,074 | -39.8 |
| SERC | 6,863 | 5,409 | 5,539 | 18,265 | 13,431 | 36.0 |
| FRCC | 18,976 | 13,176 | 17,995 | 47,500 | 52,704 | NM |
| SPP | 58,242 | 44,600 | 44,766 | 155,799 | 103,700 | 50.2 |
| WSCC (U.S.) | 29,989 | 28,930 | 32,214 | 90,427 | 95,887 | -5.7 |
| **Contiguous U.S.** | **203,927** | **149,427** | **191,867** | **529,525** | **491,594** | **7.7** |
| ASCC | 2,503 | 2,531 | 2,391 | 7,769 | 7,570 | 2.6 |
| Hawaii | — | — | — | — | — | — |
| **U.S. Total** | **206,430** | **151,958** | **194,258** | **537,294** | **499,164** | **7.6** |

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •See Glossary for explanation of acronyms. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 18. Electric Utility Consumption of Coal by Census Division and State
(Thousand Short Tons)

| Census Division and State | March 1999 | February 1999 | March 1998 | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 | 1998 | Difference (percent) |
| **New England** | **133** | **102** | **447** | **439** | **1,665** | **-73.7** |
| Connecticut | — | — | 52 | — | 208 | NM |
| Maine | — | — | — | — | — | — |
| Massachusetts | 45 | 19 | 329 | 120 | 1,109 | -89.2 |
| New Hampshire | 89 | 83 | 66 | 318 | 349 | -8.7 |
| Rhode Island | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — |
| **Middle Atlantic** | **4,354** | **4,119** | **4,552** | **13,266** | **13,596** | **-2.4** |
| New Jersey | 296 | 182 | 147 | 687 | 489 | 40.5 |
| New York | 712 | 718 | 756 | 2,313 | 2,247 | 3.0 |
| Pennsylvania | 3,346 | 3,220 | 3,649 | 10,266 | 10,861 | -5.5 |
| **East North Central** | **16,090** | **15,564** | **15,985** | **49,257** | **50,267** | **-2.0** |
| Illinois | 2,874 | 2,931 | 2,545 | 8,957 | 8,903 | .6 |
| Indiana | 4,278 | 4,215 | 4,344 | 13,301 | 13,297 | * |
| Michigan | 2,792 | 2,612 | 2,757 | 8,171 | 8,410 | -2.8 |
| Ohio | 4,249 | 3,984 | 4,664 | 13,020 | 14,134 | -7.9 |
| Wisconsin | 1,897 | 1,822 | 1,675 | 5,807 | 5,523 | 5.1 |
| **West North Central** | **10,066** | **9,624** | **10,954** | **31,458** | **32,384** | **-2.9** |
| Iowa | 1,442 | 1,497 | 1,774 | 4,782 | 4,970 | -3.8 |
| Kansas | 1,245 | 1,360 | 1,437 | 4,284 | 4,369 | -1.9 |
| Minnesota | 1,313 | 1,187 | 1,526 | 4,060 | 4,587 | -11.5 |
| Missouri | 2,969 | 2,648 | 3,014 | 8,871 | 8,885 | -.2 |
| Nebraska | 800 | 744 | 924 | 2,512 | 2,729 | -7.9 |
| North Dakota | 2,100 | 2,007 | 2,112 | 6,371 | 6,327 | .7 |
| South Dakota | 198 | 181 | 166 | 579 | 519 | 11.7 |
| **South Atlantic** | **12,990** | **10,931** | **12,107** | **36,675** | **36,149** | **1.5** |
| Delaware | 109 | 87 | 149 | 344 | 374 | -8.2 |
| District of Columbia | — | — | — | — | — | — |
| Florida | 1,737 | 1,707 | 1,838 | 5,592 | 6,347 | -11.9 |
| Georgia | 2,701 | 1,887 | 2,286 | 6,711 | 6,245 | 7.5 |
| Maryland | 876 | 782 | 856 | 2,675 | 2,714 | -1.5 |
| North Carolina | 2,207 | 1,649 | 2,067 | 5,760 | 5,932 | -2.9 |
| South Carolina | 1,043 | 890 | 968 | 2,985 | 2,876 | 3.8 |
| Virginia | 996 | 1,018 | 1,050 | 3,122 | 3,040 | 2.7 |
| West Virginia | 3,320 | 2,912 | 2,894 | 9,485 | 8,619 | 10.0 |
| **East South Central** | **8,005** | **7,276** | **7,852** | **24,006** | **23,222** | **3.4** |
| Alabama | 2,352 | 2,243 | 2,233 | 7,127 | 6,867 | 3.8 |
| Kentucky | 3,247 | 2,965 | 3,046 | 9,897 | 9,125 | 8.5 |
| Mississippi | 394 | 352 | 442 | 1,199 | 1,225 | -2.1 |
| Tennessee | 2,013 | 1,716 | 2,131 | 5,783 | 6,006 | -3.7 |
| **West South Central** | **9,942** | **10,303** | **9,954** | **32,589** | **33,646** | **-3.1** |
| Arkansas | 1,137 | 1,042 | 841 | 3,567 | 3,084 | 15.7 |
| Louisiana | 847 | 945 | 1,017 | 3,011 | 3,264 | -7.8 |
| Oklahoma | 1,439 | 1,429 | 1,580 | 4,483 | 4,989 | -10.1 |
| Texas | 6,519 | 6,887 | 6,516 | 21,528 | 22,308 | -3.5 |
| **Mountain** | **8,764** | **8,974** | **9,213** | **27,685** | **27,408** | **1.0** |
| Arizona | 1,424 | 1,389 | 1,364 | 4,322 | 4,118 | 5.0 |
| Colorado | 1,305 | 1,400 | 1,419 | 4,312 | 4,311 | * |
| Idaho | — | — | — | — | — | — |
| Montana | 957 | 828 | 914 | 2,719 | 2,640 | 3.0 |
| Nevada | 581 | 604 | 663 | 1,927 | 1,950 | -1.2 |
| New Mexico | 1,345 | 1,502 | 1,284 | 4,217 | 3,639 | 15.9 |
| Utah | 1,010 | 1,189 | 1,181 | 3,602 | 3,737 | -3.6 |
| Wyoming | 2,142 | 2,062 | 2,387 | 6,586 | 7,013 | -6.1 |
| **Pacific Contiguous** | **560** | **582** | **737** | **1,784** | **2,038** | **-12.4** |
| California | — | — | — | — | — | — |
| Oregon | 188 | 145 | 215 | 541 | 522 | 3.7 |
| Washington | 372 | 437 | 521 | 1,243 | 1,516 | -18.0 |
| **Pacific Noncontiguous** | **16** | **13** | **16** | **44** | **58** | **-24.7** |
| Alaska | 16 | 13 | 16 | 44 | 58 | -24.7 |
| Hawaii | — | — | — | — | — | — |
| **U.S. Total** | **70,922** | **67,489** | **71,817** | **217,202** | **220,433** | **-1.5** |

* = For detailed data, the absolute value is less than 0.5; for percentage calculations, the absolute value is less than 0.05 percent.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •Coal includes lignite, bituminous coal, subbituminous coal, and anthracite. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 19. Electric Utility Consumption of Petroleum by Census Division and State
(Thousand Barrels)

| Census Division and State | March 1999 | February 1999 | March 1998 | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 | 1998 | Difference (percent) |
| **New England** | **2,150** | **1,593** | **3,536** | **7,363** | **10,971** | **-32.9** |
| Connecticut | 1,404 | 1,756 | 1,422 | 4,958 | 4,129 | 20.1 |
| Maine | 375 | 166 | 24 | 1,034 | 327 | 216.3 |
| Massachusetts | NM | -678 | 1,886 | 336 | 5,881 | -94.3 |
| New Hampshire | 347 | 345 | 202 | 1,021 | 536 | 90.3 |
| Rhode Island | 2 | 2 | 2 | 5 | 5 | 3.4 |
| Vermont | NM | NM | NM | 10 | 93 | -89.0 |
| **Middle Atlantic** | **2,542** | **2,714** | **2,101** | **9,068** | **5,043** | **79.8** |
| New Jersey | 15 | 37 | 27 | 139 | 84 | 64.8 |
| New York | 1,778 | 2,391 | 1,753 | 7,476 | 4,419 | 69.2 |
| Pennsylvania | 749 | 287 | 322 | 1,453 | 539 | 169.4 |
| **East North Central** | **287** | **195** | **704** | **1,048** | **1,028** | **1.9** |
| Illinois | 22 | 19 | 462 | 111 | 523 | -78.8 |
| Indiana | 46 | 31 | 37 | 136 | 91 | 49.2 |
| Michigan | 150 | 84 | 148 | 459 | 281 | 63.2 |
| Ohio | 61 | 43 | 40 | 205 | 104 | 97.2 |
| Wisconsin | 8 | 19 | 17 | 137 | 29 | 373.5 |
| **West North Central** | **93** | **70** | **51** | **309** | **146** | **111.2** |
| Iowa | 8 | 3 | 7 | 38 | 17 | 125.8 |
| Kansas | 54 | NM | 12 | 119 | 30 | 299.0 |
| Minnesota | 4 | 6 | 8 | 20 | 19 | 2.7 |
| Missouri | 19 | 37 | 14 | 100 | 42 | 139.0 |
| Nebraska | 3 | NM | NM | 8 | 13 | -36.4 |
| North Dakota | 5 | 4 | 4 | 13 | 23 | -44.2 |
| South Dakota | 1 | * | 1 | 11 | 3 | 303.2 |
| **South Atlantic** | **6,308** | **6,038** | **5,058** | **18,344** | **9,842** | **86.4** |
| Delaware | 459 | 239 | 240 | 894 | 360 | 148.4 |
| District of Columbia | 6 | 7 | * | 20 | 17 | 19.4 |
| Florida | 4,543 | 4,629 | 3,636 | 13,389 | 7,836 | 70.9 |
| Georgia | 19 | 14 | 58 | 206 | 83 | 147.1 |
| Maryland | 761 | 692 | 639 | 1,979 | 911 | 117.2 |
| North Carolina | 29 | 27 | 46 | 185 | 98 | 88.4 |
| South Carolina | 32 | 11 | 64 | 122 | 82 | 48.3 |
| Virginia | 446 | 402 | 355 | 1,493 | 386 | 287.3 |
| West Virginia | 12 | 17 | 19 | 56 | 69 | -18.8 |
| **East South Central** | **949** | **1,077** | **1,108** | **3,323** | **2,376** | **39.9** |
| Alabama | 13 | 21 | 40 | 141 | 67 | 109.0 |
| Kentucky | 28 | 13 | 20 | 63 | 64 | -1.6 |
| Mississippi | 841 | 997 | 1,020 | 2,836 | 2,199 | 29.0 |
| Tennessee | 67 | 46 | 28 | 282 | 45 | 527.6 |
| **West South Central** | **212** | **164** | **263** | **607** | **453** | **34.2** |
| Arkansas | 28 | 9 | 4 | 82 | 14 | 490.5 |
| Louisiana | 165 | 120 | 225 | 425 | 372 | 14.5 |
| Oklahoma | 1 | 1 | * | 1 | 2 | -18.6 |
| Texas | 18 | 34 | 34 | 99 | 66 | 50.4 |
| **Mountain** | **59** | **21** | **32** | **113** | **85** | **32.8** |
| Arizona | 8 | 3 | 14 | 16 | 25 | -33.3 |
| Colorado | 2 | 2 | 3 | 5 | 10 | -49.8 |
| Idaho | * | * | * | * | * | NM |
| Montana | 2 | 2 | 1 | 9 | 8 | 9.2 |
| Nevada | 18 | 2 | 3 | 27 | 9 | 206.8 |
| New Mexico | 17 | 4 | 2 | 26 | 7 | 251.6 |
| Utah | 6 | NM | NM | 10 | 10 | .7 |
| Wyoming | 7 | 7 | 5 | 20 | 16 | 22.1 |
| **Pacific Contiguous** | **9** | **10** | **37** | **26** | **64** | **-59.7** |
| California | 8 | 7 | 36 | 22 | 59 | -62.5 |
| Oregon | 1 | 2 | 1 | 3 | 3 | 2.9 |
| Washington | * | * | 1 | * | 2 | NM |
| **Pacific Noncontiguous** | **1,111** | **1,152** | **1,031** | **3,291** | **3,005** | **9.5** |
| Alaska | NM | 141 | NM | 404 | 435 | -7.0 |
| Hawaii | 1,022 | 1,011 | 932 | 2,887 | 2,570 | 12.3 |
| **U.S. Total** | **13,719** | **13,034** | **13,921** | **43,491** | **33,013** | **31.7** |

* = For detailed data, the absolute value is less than 0.5; for percentage calculations, the absolute value is less than 0.05 percent.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •Data do not include petroleum coke. •The March 1999 petroleum coke consumption was 137,2 short tons. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 20. Electric Utility Consumption of Gas by Census Division and State
(Million Cubic Feet)

| Census Division and State | March 1999 | February 1999 | March 1998 | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 | 1998 | Difference (percent) |
| **New England** | **558** | **54** | **3,475** | **798** | **12,618** | **-93.7** |
| Connecticut | 123 | 1 | 23 | 153 | 1,267 | -87.9 |
| Maine | — | — | — | — | — | — |
| Massachusetts | NM | NM | 1,561 | 583 | 5,112 | -88.6 |
| New Hampshire | 16 | * | — | 49 | 26 | 85.9 |
| Rhode Island | — | — | 1,888 | — | 6,099 | — |
| Vermont | 6 | 2 | 3 | 14 | 115 | -88.1 |
| **Middle Atlantic** | **13,815** | **8,845** | **12,648** | **31,986** | **41,085** | **-22.1** |
| New Jersey | 686 | 343 | 1,835 | 2,051 | 2,781 | -26.2 |
| New York | 12,815 | 8,397 | 10,407 | 29,255 | 37,416 | -21.8 |
| Pennsylvania | 315 | 105 | 406 | 680 | 889 | -23.5 |
| **East North Central** | **8,615** | **5,546** | **9,561** | **21,558** | **23,961** | **-10.0** |
| Illinois | 2,863 | 1,357 | 3,985 | 6,690 | 11,463 | -41.6 |
| Indiana | 332 | 147 | 427 | 997 | 671 | 48.6 |
| Michigan | 3,881 | 3,061 | 3,735 | 10,489 | 9,434 | 11.2 |
| Ohio | 971 | 333 | 307 | 1,616 | 517 | 212.5 |
| Wisconsin | 568 | 648 | 1,106 | 1,765 | 1,876 | -5.9 |
| **West North Central** | **3,705** | **1,860** | **1,590** | **7,896** | **3,552** | **122.3** |
| Iowa | NM | 193 | 237 | 527 | 687 | -23.3 |
| Kansas | 2,451 | NM | NM | 4,677 | 1,838 | 154.4 |
| Minnesota | NM | NM | NM | 882 | 424 | 108.0 |
| Missouri | 279 | 310 | 160 | 1,131 | 377 | 200.3 |
| Nebraska | 118 | 44 | 58 | 202 | 115 | 75.4 |
| North Dakota | — | — | — | — | — | NM |
| South Dakota | 232 | 120 | 42 | 477 | 111 | 329.2 |
| **South Atlantic** | **23,359** | **16,154** | **20,428** | **58,270** | **57,465** | **1.4** |
| Delaware | 1,687 | 912 | 475 | 3,731 | 804 | 363.8 |
| District of Columbia | — | — | — | — | — | — |
| Florida | 18,961 | 13,119 | 18,011 | 47,504 | 52,712 | -9.9 |
| Georgia | 220 | 20 | 149 | 255 | 308 | -17.0 |
| Maryland | 289 | 138 | 371 | 871 | 785 | 10.9 |
| North Carolina | 25 | 3 | 91 | 62 | 103 | -39.7 |
| South Carolina | 48 | 21 | 105 | 83 | 150 | -44.3 |
| Virginia | 2,093 | 1,918 | 1,196 | 5,677 | 2,524 | 124.9 |
| West Virginia | 35 | 24 | 29 | 86 | 78 | 9.3 |
| **East South Central** | **5,363** | **5,318** | **4,584** | **17,429** | **11,190** | **55.8** |
| Alabama | 925 | 550 | 382 | 2,036 | 901 | 126.1 |
| Kentucky | 142 | 90 | 282 | 670 | 506 | 32.3 |
| Mississippi | 4,296 | 4,678 | 3,920 | 14,723 | 9,783 | 50.5 |
| Tennessee | — | — | — | — | — | — |
| **West South Central** | **117,751** | **82,028** | **107,398** | **299,284** | **247,696** | **20.8** |
| Arkansas | 2,034 | 1,376 | 1,507 | 3,974 | 2,063 | 92.6 |
| Louisiana | 21,653 | 17,481 | 16,190 | 60,631 | 41,205 | 47.1 |
| Oklahoma | 12,492 | 7,519 | 9,348 | 30,601 | 20,954 | 46.0 |
| Texas | 81,573 | 55,651 | 80,353 | 204,078 | 183,474 | 11.2 |
| **Mountain** | **10,625** | **9,141** | **7,364** | **30,065** | **21,125** | **42.3** |
| Arizona | 2,013 | 1,783 | 718 | 6,220 | 2,482 | 150.6 |
| Colorado | 1,141 | 981 | 412 | 2,560 | 1,235 | 107.3 |
| Idaho | — | — | — | — | — | — |
| Montana | 4 | 5 | 39 | 62 | 40 | 54.0 |
| Nevada | 4,274 | 3,699 | 2,925 | 12,551 | 9,835 | 27.6 |
| New Mexico | 2,789 | 2,322 | 3,091 | 7,575 | 6,809 | 11.2 |
| Utah | NM | NM | NM | 1,060 | 515 | 105.8 |
| Wyoming | 13 | 14 | 3 | 36 | 210 | -82.8 |
| **Pacific Contiguous** | **20,141** | **20,493** | **24,820** | **62,258** | **72,905** | **-14.6** |
| California | 19,915 | NM | 23,365 | 59,496 | 68,381 | -13.0 |
| Oregon | 219 | 936 | 1,334 | 2,687 | 3,906 | -31.2 |
| Washington | 6 | 40 | 121 | 75 | 618 | -87.9 |
| **Pacific Noncontiguous** | **2,499** | **2,519** | **2,391** | **7,751** | **7,568** | **2.4** |
| Alaska | 2,499 | 2,519 | 2,391 | 7,751 | 7,568 | 2.4 |
| Hawaii | — | — | — | — | — | — |
| **U.S. Total** | **206,430** | **151,958** | **194,258** | **537,294** | **499,164** | **7.6** |

* = For detailed data, the absolute value is less than 0.5; for percentage calculations, the absolute value is less than 0.05 percent.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see the Technical Notes for a detailed discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

# Fossil-Fuel Stocks at U.S. Electric Utilities

## Table 21. U.S. Electric Utility Stocks of Coal and Petroleum, 1989 Through March 1999

| Period | Coal (thousand short tons) | | | | Petroleum (thousand barrels) | | | Petroleum Coke (thousand short tons) |
|---|---|---|---|---|---|---|---|---|
| | Anthracite[1] | Bituminous[2] | Lignite | Total | Light | Heavy | Total | |
| **1989** | **6,403** | **122,967** | **6,490** | **135,860** | **13,824** | **47,446** | **61,270** | **105** |
| **1990** | **6,499** | **142,650** | **7,016** | **156,166** | **16,471** | **67,030** | **83,501** | **94** |
| **1991** | **6,513** | **145,367** | **5,996** | **157,876** | **16,357** | **58,636** | **74,993** | **70** |
| **1992** | **6,215** | **142,156** | **5,759** | **154,130** | **15,714** | **56,135** | **71,849** | **67** |
| **1993** | **5,639** | **98,560** | **7,142** | **111,341** | **15,674** | **46,769** | **62,443** | **89** |
| **1994** | **4,879** | **115,325** | **6,693** | **126,897** | **16,644** | **46,342** | **62,986** | **69** |
| **1995** | **4,325** | **116,749** | **5,231** | **126,304** | **15,392** | **35,102** | **50,495** | **65** |
| **1996** | **3,687** | **105,807** | **5,129** | **114,623** | **15,216** | **32,473** | **47,690** | **91** |
| **1997** | | | | | | | | |
| January | 3,609 | 98,043 | 4,969 | 106,621 | 14,766 | 29,742 | 44,508 | 136 |
| February | 3,544 | 98,878 | 5,391 | 107,813 | 14,901 | 31,372 | 46,273 | 159 |
| March | 3,479 | 104,650 | 5,599 | 113,727 | 15,226 | 31,425 | 46,651 | 177 |
| April | 3,417 | 109,124 | 5,723 | 118,263 | 14,625 | 32,534 | 47,158 | 221 |
| May | 3,374 | 114,257 | 5,760 | 123,391 | 14,685 | 33,213 | 47,898 | 253 |
| June | 3,323 | 111,761 | 5,704 | 120,787 | 14,824 | 32,129 | 46,953 | 229 |
| July | 3,275 | 100,691 | 5,725 | 109,690 | 14,820 | 30,990 | 45,810 | 308 |
| August | 3,228 | 94,896 | 5,599 | 103,724 | 14,823 | 30,872 | 45,694 | 293 |
| September | 3,166 | 93,456 | 5,496 | 102,119 | 14,832 | 29,064 | 43,896 | 308 |
| October | 3,118 | 93,309 | 6,009 | 102,436 | 15,049 | 30,115 | 45,163 | 439 |
| November | 3,075 | 92,566 | 5,093 | 100,735 | 15,214 | 32,255 | 47,469 | 450 |
| December | 3,021 | 90,905 | 4,900 | 98,826 | 15,456 | 33,336 | 48,792 | 469 |
| **1998** | | | | | | | | |
| January | 2,958 | 92,429 | 5,019 | 100,406 | 15,627 | 33,871 | 49,499 | 403 |
| February | 2,906 | 95,997 | 4,890 | 103,793 | 15,953 | 33,872 | 49,824 | 358 |
| March | 2,846 | 100,323 | 4,933 | 108,101 | 15,481 | 31,180 | 46,661 | 418 |
| April | 2,803 | 108,318 | 5,110 | 116,231 | 16,029 | 35,021 | 51,050 | 498 |
| May | 2,743 | 111,851 | 5,342 | 119,936 | 14,802 | 32,911 | 47,713 | 501 |
| June | 2,699 | 110,185 | 4,874 | 117,758 | 14,559 | 30,036 | 44,594 | 683 |
| July | 2,672 | 102,183 | 4,685 | 109,540 | 15,220 | 31,638 | 46,858 | 577 |
| August | 2,655 | 96,280 | 4,786 | 103,720 | 15,118 | 32,605 | 47,723 | 623 |
| September | 2,640 | 97,002 | 4,911 | 104,552 | 14,793 | 31,258 | 46,052 | 562 |
| October | 2,596 | 102,923 | 4,502 | 110,021 | 15,881 | 35,409 | 51,290 | 588 |
| November | 2,542 | 110,267 | 4,417 | 117,225 | 16,162 | 37,059 | 53,221 | 602 |
| December | 2,503 | 113,626 | 4,373 | 120,501 | 16,343 | 37,447 | 53,790 | 559 |
| **1999** | | | | | | | | |
| January | W | 113,914 | W | 120,425 | 16,288 | 36,470 | 52,759 | 548 |
| February | W | 121,565 | W | 128,256 | 16,128 | 36,359 | 52,488 | 568 |
| March | W | 129,010 | W | 135,732 | 15,759 | 36,183 | 51,943 | 540 |

1 Anthracite includes anthracite silt stored off-site.
2 Bituminous coal includes subbituminous coal.
W = Withheld to avoid disclosure of individual company data.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final--see Technical Notes for adjustment methodology. Values for 1997 and prior years are final. •Totals may not equal sum of components because of independent rounding. •Prior to 1993, values represent December end-of-month stocks. For 1993 forward, values represent end-of-month stocks. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report," and predecessor forms.

## Table 22. Electric Utility Stocks of Coal by NERC Region and Hawaii
(Thousand Short Tons)

| NERC Region and Hawaii | March 1999 | February 1999 | March 1998 | Monthly Difference (percent) | Yearly Difference (percent) |
|---|---|---|---|---|---|
| ECAR | 32,431 | 31,342 | 28,164 | 3.5 | 15.1 |
| ERCOT | 7,588 | 6,717 | 5,254 | 13.0 | 44.4 |
| MAAC | 7,683 | 7,771 | 8,303 | –1.1 | –7.5 |
| MAIN | 14,526 | 14,175 | 11,742 | 2.5 | 23.7 |
| MAPP (U.S.) | 11,470 | 11,055 | 8,540 | 3.7 | 34.3 |
| NPCC (U.S.) | 1,766 | 1,696 | 1,670 | 4.1 | 5.8 |
| SERC | 23,432 | 22,136 | 18,307 | 5.9 | 28.0 |
| FRCC | 5,267 | 4,966 | 3,813 | 6.1 | NM |
| SPP | 19,392 | 17,076 | 11,925 | 13.6 | 62.6 |
| WSCC (U.S.) | 12,178 | 11,323 | 10,383 | 7.6 | 17.3 |
| **Contiguous U.S.** | **135,732** | **128,256** | **108,101** | **5.8** | **25.6** |
| ASCC | — | — | — | NM | NM |
| Hawaii | — | — | — | — | — |
| **U.S. Total** | **135,732** | **128,256** | **108,101** | **5.8** | **25.6** |

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •Coal includes lignite, bituminous coal, subbituminous coal, and anthracite. •Stocks are end-of-month stocks at electric utilities. •See Glossary for explanation of acronyms. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 23. Electric Utility Stocks of Petroleum by NERC Region and Hawaii
(Thousand Barrels)

| NERC Region and Hawaii | March 1999 | February 1999 | March 1998 | Monthly Difference (percent) | Yearly Difference (percent) |
|---|---|---|---|---|---|
| ECAR | 2,361 | 2,408 | 1,663 | –2.0 | 42.0 |
| ERCOT | 4,238 | 4,241 | 4,342 | –.1 | –2.4 |
| MAAC | 6,844 | 6,430 | 5,723 | 6.4 | 19.6 |
| MAIN | 1,595 | 1,595 | 927 | * | 72.1 |
| MAPP (U.S.) | W | 966 | 815 | W | W |
| NPCC (U.S.) | 11,007 | 10,875 | 10,366 | 1.2 | 6.2 |
| SERC | 4,493 | 4,659 | 3,371 | –3.5 | 33.3 |
| FRCC | 8,618 | 8,876 | 7,233 | –2.9 | NM |
| SPP | 4,792 | 5,257 | 4,649 | –8.9 | 3.1 |
| WSCC (U.S.) | 6,130 | 6,076 | 6,507 | .9 | –5.8 |
| **Contiguous U.S.** | **51,076** | **51,383** | **45,595** | **–.6** | **12.0** |
| ASCC | 175 | 169 | 230 | 3.9 | –24.0 |
| Hawaii | W | 936 | 836 | W | W |
| **U.S. Total** | **51,943** | **52,488** | **46,661** | **–1.0** | **11.3** |

* = For detailed data, the absolute value is less than 0.5; for percentage calculations, the absolute value is less than 0.05 percent.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

W = Withheld to avoid disclosure of individual company data.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •Data do not include petroleum coke. •Stocks are end-of-month stocks at electric utilities. •See Glossary for explanation of acronyms. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 24. Electric Utility Stocks of Coal by Census Division
(Thousand Short Tons)

| Census Division | March 1999 | February 1999 | March 1998 | Monthly Difference (percent) | Yearly Difference (percent) |
|---|---|---|---|---|---|
| New England | W | W | W | W | W |
| Middle Atlantic | 9,960 | 9,860 | 9,193 | 1.0 | 8.3 |
| East North Central | 34,792 | 33,472 | 29,013 | 3.9 | 19.9 |
| West North Central | 20,092 | 19,112 | 14,366 | 5.1 | 39.9 |
| South Atlantic | 25,063 | 24,225 | 20,230 | 3.5 | 23.9 |
| East South Central | 13,046 | 12,423 | 11,358 | 5.0 | 14.9 |
| West South Central | 19,480 | 16,684 | 12,197 | 16.8 | 59.7 |
| Mountain | 11,536 | 10,676 | 10,100 | 8.1 | 14.2 |
| Pacific Contiguous | W | W | W | W | W |
| Pacific Noncontiguous | — | — | — | NM | NM |
| **U.S. Total** | **135,732** | **128,256** | **108,101** | **5.8** | **25.6** |

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

W = Withheld to avoid disclosure of individual company data.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •Coal includes lignite, bituminous coal, subbituminous coal, and anthracite. •Stocks are end-of-month stocks at electric utilities. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table 25. Electric Utility Stocks of Petroleum by Census Division
(Thousand Barrels)

| Census Division | March 1999 | February 1999 | March 1998 | Monthly Difference (percent) | Yearly Difference (percent) |
|---|---|---|---|---|---|
| New England | 3,513 | 3,730 | 4,427 | -5.8 | -20.6 |
| Middle Atlantic | 11,592 | 11,045 | 9,691 | 4.9 | 19.6 |
| East North Central | 3,581 | 3,661 | 2,305 | -2.2 | 55.4 |
| West North Central | 1,978 | 1,944 | 1,598 | 1.8 | 23.8 |
| South Atlantic | 14,655 | 14,812 | 11,976 | -1.1 | 22.4 |
| East South Central | 2,686 | 3,178 | 1,945 | -15.5 | 38.1 |
| West South Central | 6,877 | 6,893 | 7,184 | -.2 | -4.3 |
| Mountain | 1,021 | 956 | 1,041 | 6.8 | -1.9 |
| Pacific Contiguous | 5,159 | 5,150 | 5,429 | .2 | -5.0 |
| Pacific Noncontiguous | 880 | 1,120 | 1,066 | -21.4 | -17.5 |
| **U.S. Total** | **51,943** | **52,488** | **46,661** | **-1.0** | **11.3** |

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Values for 1999 are estimates based on a cutoff model sample--see Technical Notes for a discussion of the sample design for the Form EIA-759. Values for 1998 have been adjusted to reflect the Form EIA-759 census data and are final. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding. •Data do not include petroleum coke. •The March 1999 petroleum coke stocks were 98539,6 short tons. •Stocks are end-of-month stocks at electric utilities. Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

# Receipts and Cost of Fossil Fuels at U.S. Electric Utilities

## Table 26. U.S. Electric Utility Receipts of and Average Cost for Fossil Fuels, 1989 Through February 1999

| Period | Coal [1] | | Petroleum | | | | Gas | | All Fossil Fuels [2] |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heavy Oil [3] | | Total | | | | |
| | Receipts (thousand short tons) | Cost (cents/ $10^6$ Btu) | Receipts (thousand barrels) | Cost (cents/ $10^6$ Btu) | Receipts (thousand barrels) | Cost (cents/ $10^6$ Btu) | Receipts (thousand Mcf) | Cost (cents/ $10^6$ Btu) | Cost (cents/ $10^6$ Btu) |
| **1989** | **753,217** | **144.5** | **237,668** | **284.6** | **246,422** | **289.3** | **2,472,506** | **235.5** | **167.5** |
| **1990** | **786,627** | **145.5** | **202,281** | **331.9** | **209,350** | **338.4** | **2,490,979** | **232.1** | **168.9** |
| **1991** | **769,923** | **144.7** | **163,106** | **246.5** | **169,625** | **254.8** | **2,630,818** | **215.3** | **160.3** |
| **1992** | **775,963** | **141.2** | **138,537** | **247.5** | **144,390** | **255.1** | **2,637,678** | **232.8** | **159.0** |
| **1993** | **769,152** | **138.5** | **141,719** | **236.2** | **147,902** | **243.3** | **2,574,523** | **256.0** | **159.5** |
| **1994** | **831,929** | **135.5** | **135,184** | **240.9** | **142,940** | **248.8** | **2,863,904** | **223.0** | **152.6** |
| **1995** | **826,860** | **131.8** | **78,216** | **258.6** | **84,292** | **267.9** | **3,023,327** | **198.4** | **145.3** |
| **1996** | **862,701** | **128.9** | **98,926** | **303.4** | **106,629** | **315.7** | **2,604,663** | **264.1** | **151.9** |
| **1997** | | | | | | | | | |
| January | 71,929 | 128.0 | 8,817 | 305.7 | 9,658 | 321.0 | 133,720 | 407.7 | 157.7 |
| February | 69,229 | 129.1 | 8,959 | 287.5 | 9,346 | 295.3 | 134,664 | 311.8 | 150.6 |
| March | 72,369 | 130.0 | 6,796 | 267.1 | 7,157 | 276.2 | 185,340 | 236.0 | 145.5 |
| April | 69,815 | 129.6 | 6,379 | 254.9 | 6,730 | 264.8 | 184,908 | 230.5 | 144.3 |
| May | 74,929 | 128.0 | 6,476 | 257.9 | 6,966 | 271.2 | 225,841 | 247.0 | 146.6 |
| June | 70,479 | 127.9 | 9,253 | 262.9 | 10,010 | 274.4 | 278,304 | 254.3 | 153.2 |
| July | 74,065 | 125.7 | 10,818 | 269.9 | 11,689 | 280.4 | 373,646 | 243.7 | 154.6 |
| August | 76,352 | 125.2 | 11,049 | 268.3 | 11,618 | 275.5 | 360,018 | 252.2 | 154.0 |
| September | 75,091 | 126.3 | 8,880 | 274.7 | 9,332 | 281.3 | 313,132 | 290.5 | 158.3 |
| October | 75,593 | 126.4 | 10,161 | 301.6 | 10,715 | 309.1 | 219,342 | 324.3 | 157.0 |
| November | 72,558 | 126.4 | 12,218 | 309.3 | 12,818 | 315.4 | 168,754 | 342.4 | 156.4 |
| December | 78,179 | 125.2 | 11,101 | 265.4 | 11,750 | 273.3 | 187,065 | 278.4 | 146.9 |
| **Total** | **880,588** | **127.3** | **110,906** | **278.8** | **117,789** | **288.0** | **2,764,734** | **276.0** | **152.2** |
| **1998** [4] | | | | | | | | | |
| January | 79,212 | 125.7 | 9,569 | 235.5 | 10,105 | 242.4 | 165,869 | 275.0 | 143.3 |
| February | 70,353 | 126.2 | 8,736 | 206.0 | 9,255 | 214.0 | 124,584 | 253.4 | 139.2 |
| March | 75,678 | 126.6 | 10,676 | 199.3 | 11,133 | 204.6 | 181,034 | 254.4 | 142.5 |
| April | 74,848 | 126.6 | 11,749 | 218.9 | 12,289 | 225.0 | 186,127 | 259.8 | 144.7 |
| May | 75,980 | 126.3 | 11,554 | 215.3 | 12,185 | 221.5 | 252,869 | 247.1 | 146.7 |
| June | 76,605 | 126.4 | 13,350 | 216.8 | 14,164 | 222.6 | 331,124 | 238.0 | 149.6 |
| July | 79,676 | 125.5 | 21,016 | 220.1 | 21,877 | 223.9 | 389,405 | 247.7 | 154.5 |
| August | 82,057 | 125.8 | 19,262 | 202.9 | 20,107 | 207.2 | 389,961 | 217.8 | 147.2 |
| September | 78,854 | 124.8 | 12,919 | 196.0 | 13,602 | 202.1 | 331,911 | 211.9 | 142.6 |
| October | 79,399 | 123.5 | 14,952 | 207.8 | 15,683 | 213.7 | 230,952 | 223.1 | 140.1 |
| November | 77,087 | 123.8 | 10,569 | 198.8 | 11,192 | 205.1 | 164,341 | 241.0 | 137.8 |
| December | 79,700 | 121.0 | 12,500 | 175.5 | 13,599 | 183.5 | 174,780 | 231.0 | 134.3 |
| **Total** | **929,448** | **125.2** | **156,852** | **207.9** | **165,191** | **213.6** | **2,922,957** | **238.1** | **143.8** |
| **1999** [4] | | | | | | | | | |
| January | 76,331 | 122.1 | 13,215 | 176.3 | 14,019 | 181.9 | 163,125 | 225.0 | 134.6 |
| February | 73,938 | 124.7 | 10,013 | 166.2 | 10,417 | 171.5 | 138,303 | 221.5 | 134.4 |
| **Total** | **150,269** | **123.4** | **23,228** | **171.9** | **24,436** | **177.4** | **301,428** | **223.4** | **134.5** |
| **Year-to-Date** | | | | | | | | | |
| **1999** [4] | **150,269** | **123.4** | **23,228** | **171.9** | **24,436** | **177.4** | **301,428** | **223.4** | **134.5** |
| **1998** [4] | **149,565** | **125.9** | **18,304** | **221.5** | **19,360** | **228.9** | **290,453** | **265.7** | **141.4** |
| **1997** | **141,159** | **128.6** | **17,775** | **296.5** | **19,003** | **308.3** | **268,384** | **359.4** | **154.2** |

1 Includes lignite, bituminous coal, subbituminous coal, and anthracite.

2 The weighted average for all fossil fuels includes both heavy oil and light oil (Fuel Oil No. 2, kerosene, and jet fuel) prices. Data do not include petroleum coke.

3 Heavy oil includes Fuel Oil Nos. 4, 5, and 6, and topped crude fuel oil.

4 Data for 1999 are preliminary. Data for 1998 are final.

Notes: •Totals may not equal sum of components because of independent rounding. •As of 1991, data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Data for 1988-1990 are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. •Mcf=thousand cubic feet. •Monetary values are expressed in nominal terms. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and predecessor forms.

## Table 27. Electric Utility Receipts of Coal by NERC Region and Hawaii
(Thousand Short Tons)

| NERC Region and Hawaii | February 1999 [1] | January 1999 [1] | February 1998 [1] | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 [1] | 1998 [1] | Difference (percent) |
| ECAR | 17,328 | 15,945 | 16,824 | 33,272 | 34,921 | –4.7 |
| ERCOT | 6,600 | 7,409 | 5,599 | 14,009 | 12,490 | 12.2 |
| MAAC | 3,368 | 3,545 | 3,611 | 6,913 | 7,375 | –6.3 |
| MAIN | 6,186 | 6,499 | 6,499 | 12,685 | 12,975 | –2.2 |
| MAPP (U.S.) | 6,041 | 6,548 | 6,111 | 12,589 | 12,885 | –2.3 |
| NPCC (U.S.) | 898 | 751 | 1,187 | 1,649 | 2,457 | –32.9 |
| SERC | 13,499 | 13,114 | 11,884 | 26,613 | 26,548 | .2 |
| FRCC | 1,787 | 2,030 | 1,755 | 3,817 | 3,916 | NM |
| SPP | 8,697 | 9,676 | 7,872 | 18,372 | 17,134 | 7.2 |
| WSCC (U.S.) | 9,535 | 10,815 | 9,010 | 20,350 | 18,865 | 7.9 |
| **Contiguous U.S.** | **73,938** | **76,331** | **70,353** | **150,269** | **149,565** | **.5** |
| ASCC | — | — | — | — | — | — |
| Hawaii | — | — | — | — | — | — |
| **U.S. Total** | **73,938** | **76,331** | **70,353** | **150,269** | **149,565** | **.5** |

[1] Data for 1999 are preliminary. Data for 1998 are final.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Includes lignite, bituminous coal, subbituminous coal, and anthracite. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 28. Average Cost of Coal Delivered to Electric Utilities by NERC Region and Hawaii
(Cents/Million Btu)

| NERC Region and Hawaii | February 1999 [1] | January 1999 [1] | February 1998 [1] | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 [1] | 1998 [1] | Difference (percent) |
| ECAR | 123.1 | 122.1 | 123.8 | 122.6 | 125.1 | –2.0 |
| ERCOT | 118.2 | 108.3 | 123.9 | 113.0 | 125.8 | –10.2 |
| MAAC | 131.5 | 134.2 | 137.3 | 132.8 | 137.8 | –3.6 |
| MAIN | 131.7 | 130.7 | 135.1 | 131.2 | 126.8 | 3.4 |
| MAPP (U.S.) | 81.2 | 79.9 | 87.0 | 80.5 | 85.9 | –6.3 |
| NPCC (U.S.) | 146.7 | 150.8 | 156.2 | 148.5 | 158.3 | –6.2 |
| SERC | 139.0 | 139.7 | 141.2 | 139.3 | 140.8 | –1.0 |
| FRCC | 166.0 | 163.3 | 170.3 | 164.6 | 169.1 | NM |
| SPP | 119.2 | 112.0 | 116.9 | 115.4 | 116.2 | –.7 |
| WSCC (U.S.) | 113.7 | 109.2 | 109.0 | 111.3 | 109.0 | 2.1 |
| **Contiguous U.S.** | **124.7** | **122.1** | **126.2** | **123.4** | **125.9** | **–2.0** |
| ASCC | — | — | — | — | — | — |
| Hawaii | — | — | — | — | — | — |
| **U.S. Average** | **124.7** | **122.1** | **126.2** | **123.4** | **125.9** | **–2.0** |

[1] Data for 1999 are preliminary. Data for 1998 are final.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Includes lignite, bituminous coal, subbituminous coal, and anthracite. •Monetary values are expressed in monetary terms. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 29. Electric Utility Receipts of Petroleum by NERC Region and Hawaii
(Thousand Barrels)

| NERC Region and Hawaii | February 1999 [1] | January 1999 [1] | February 1998 [1] | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 [1] | 1998 [1] | Difference (percent) |
| ECAR | 226 | 282 | 207 | 508 | 333 | 52.4 |
| ERCOT | 24 | 7 | 20 | 31 | 41 | -24.9 |
| MAAC | 1,002 | 1,283 | 490 | 2,285 | 1,033 | 121.3 |
| MAIN | 27 | 125 | 19 | 152 | 49 | 211.8 |
| MAPP (U.S.) | 12 | 27 | 19 | 39 | 34 | 14.5 |
| NPCC (U.S.) | 3,366 | 5,524 | 4,794 | 8,890 | 10,878 | -18.3 |
| SERC | 74 | 911 | 278 | 985 | 384 | 156.5 |
| FRCC | 4,066 | 4,002 | 2,286 | 8,068 | 4,109 | NM |
| SPP | 1,030 | 1,147 | 703 | 2,178 | 1,443 | 50.9 |
| WSCC (U.S.) | 24 | 29 | 102 | 53 | 159 | -66.7 |
| **Contiguous U.S.** | **9,853** | **13,336** | **8,918** | **23,189** | **18,463** | **25.6** |
| ASCC | — | — | — | — | — | — |
| Hawaii | 564 | 683 | 337 | 1,247 | 897 | 39.1 |
| **U.S. Total** | **10,417** | **14,019** | **9,255** | **24,436** | **19,360** | **26.2** |

[1] Data for 1999 are preliminary. Data for 1998 are final.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 30. Average Cost of Petroleum Delivered to Electric Utilities by NERC Region and Hawaii
(Cents/Million Btu)

| NERC Region and Hawaii | February 1999 [1] | January 1999 [1] | February 1998 [1] | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 [1] | 1998 [1] | Difference (percent) |
| ECAR | 267.8 | 273.8 | 350.6 | 271.1 | 350.2 | -22.6 |
| ERCOT | 231.9 | 255.2 | 344.6 | 237.2 | 378.1 | -37.3 |
| MAAC | 203.2 | 199.2 | 210.9 | 201.0 | 237.7 | -15.5 |
| MAIN | 283.0 | 267.5 | 369.5 | 270.2 | 343.2 | -21.3 |
| MAPP (U.S.) | 281.6 | 277.0 | 367.6 | 278.5 | 372.1 | -25.2 |
| NPCC (U.S.) | 152.1 | 178.0 | 199.8 | 168.1 | 216.7 | -22.4 |
| SERC | 237.3 | 192.3 | 227.0 | 195.5 | 264.6 | -26.1 |
| FRCC | 165.5 | 167.0 | 201.8 | 166.3 | 205.9 | NM |
| SPP | 166.1 | 165.7 | 241.3 | 165.9 | 260.0 | -36.2 |
| WSCC (U.S.) | 370.4 | 374.9 | 370.6 | 372.8 | 381.7 | -2.3 |
| **Contiguous U.S.** | **168.6** | **179.9** | **211.1** | **175.1** | **224.3** | **-22.0** |
| ASCC | — | — | — | — | — | — |
| Hawaii | 222.2 | 221.1 | 292.3 | 221.6 | 324.3 | -31.7 |
| **U.S. Average** | **171.5** | **181.9** | **214.0** | **177.4** | **228.9** | **-22.5** |

[1] Data for 1999 are preliminary. Data for 1998 are final.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Monetary values are expressed in monetary terms. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 31. Electric Utility Receipts of Gas by NERC Region and Hawaii
(Million Cubic Feet)

| NERC Region and Hawaii | February 1999 [1] | January 1999 [1] | February 1998 [1] | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 [1] | 1998 [1] | Difference (percent) |
| ECAR | 3,097 | 2,694 | 2,134 | 5,791 | 5,061 | 14.4 |
| ERCOT | 40,425 | 48,767 | 34,861 | 89,192 | 77,610 | 14.9 |
| MAAC | 1,186 | 2,003 | 614 | 3,189 | 1,305 | 144.3 |
| MAIN | 1,137 | 2,838 | 3,196 | 3,975 | 7,545 | –47.3 |
| MAPP (U.S.) | 361 | 510 | 272 | 870 | 789 | 10.4 |
| NPCC (U.S.) | 8,444 | 8,170 | 15,114 | 16,614 | 38,980 | –57.4 |
| SERC | 2,810 | 3,054 | 1,051 | 5,864 | 2,609 | 124.7 |
| FRCC | 11,577 | 14,171 | 14,009 | 25,748 | 31,143 | NM |
| SPP | 43,635 | 51,496 | 25,792 | 95,131 | 60,099 | 58.3 |
| WSCC (U.S.) | 24,470 | 28,085 | 26,433 | 52,555 | 62,840 | –16.4 |
| **Contiguous U.S.** | **137,142** | **161,788** | **123,476** | **298,930** | **287,980** | **3.8** |
| ASCC | 1,161 | 1,337 | 1,108 | 2,497 | 2,473 | 1.0 |
| Hawaii | — | — | — | — | — | — |
| **U.S. Total** | **138,303** | **163,125** | **124,584** | **301,428** | **290,453** | **3.8** |

[1] Data for 1999 are preliminary. Data for 1998 are final.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 32. Average Cost of Gas Delivered to Electric Utilities by NERC Region and Hawaii
(Cents/Million Btu)

| NERC Region and Hawaii | February 1999 [1] | January 1999 [1] | February 1998 [1] | Year to Date | | |
|---|---|---|---|---|---|---|
| | | | | 1999 [1] | 1998 [1] | Difference (percent) |
| ECAR | 238.0 | 235.8 | 254.3 | 236.7 | 265.1 | –10.7 |
| ERCOT | 207.4 | 206.3 | 244.2 | 206.8 | 246.0 | –15.9 |
| MAAC | 287.7 | 325.6 | 277.8 | 311.2 | 328.4 | –5.2 |
| MAIN | 189.8 | 221.7 | 225.5 | 212.6 | 224.0 | –5.1 |
| MAPP (U.S.) | 350.2 | 314.7 | 315.3 | 329.4 | 317.7 | 3.7 |
| NPCC (U.S.) | 247.0 | 270.5 | 286.8 | 258.5 | 294.5 | –12.2 |
| SERC | 267.8 | 263.2 | 296.0 | 265.4 | 281.7 | –5.8 |
| FRCC | 269.3 | 269.8 | 282.7 | 269.5 | 297.2 | NM |
| SPP | 204.5 | 207.0 | 234.9 | 205.9 | 264.8 | –22.3 |
| WSCC (U.S.) | 235.6 | 244.2 | 252.0 | 240.2 | 262.5 | –8.5 |
| **Contiguous U.S.** | **222.0** | **225.6** | **254.1** | **224.0** | **266.4** | **–15.9** |
| ASCC | 153.0 | 153.0 | 177.8 | 153.0 | 177.1 | –13.6 |
| Hawaii | — | — | — | — | — | — |
| **U.S. Average** | **221.5** | **225.0** | **253.4** | **223.4** | **265.7** | **–15.9** |

[1] Data for 1999 are preliminary. Data for 1998 are final.

NM = This estimated value is not available due to insufficient data or inadequate anticipated data/model performance, information may not be applicable, or the percent difference calculation is not meaningful.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Monetary values are expressed in monetary terms. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 33. Electric Utility Receipts of Coal by Type, Census Division, and State, February 1999

| Census Division and State | Anthracite | | Bituminous | | Subbituminous | | Lignite | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|
| | (thousand short tons) | (billion Btu) | (thousand short tons) | (billion Btu) | (thousand short tons) | (billion Btu) | (thousand short tons) | (billion Btu) | (thousand short tons) | (billion Btu) |
| **New England** | — | — | **129** | **3,416** | — | — | — | — | **129** | **3,416** |
| Connecticut | — | — | — | — | — | — | — | — | — | — |
| Maine | — | — | — | — | — | — | — | — | — | — |
| Massachusetts | — | — | 16 | 410 | — | — | — | — | 16 | 410 |
| New Hampshire | — | — | 114 | 3,006 | — | — | — | — | 114 | 3,006 |
| Rhode Island | — | — | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — | — | — | — | — |
| **Middle Atlantic** | — | — | **4,133** | **103,637** | — | — | — | — | **4,133** | **103,637** |
| New Jersey | — | — | 196 | 5,093 | — | — | — | — | 196 | 5,093 |
| New York | — | — | 768 | 19,988 | — | — | — | — | 768 | 19,988 |
| Pennsylvania | — | — | 3,169 | 78,555 | — | — | — | — | 3,169 | 78,555 |
| **East North Central** | — | — | **10,231** | **238,941** | **5,913** | **102,935** | — | — | **16,143** | **341,876** |
| Illinois | — | — | 1,359 | 29,458 | 1,919 | 33,581 | — | — | 3,278 | 63,038 |
| Indiana | — | — | 3,490 | 79,217 | 1,333 | 23,250 | — | — | 4,823 | 102,467 |
| Michigan | — | — | 846 | 21,557 | 951 | 16,665 | — | — | 1,797 | 38,222 |
| Ohio | — | — | 4,468 | 107,067 | 131 | 2,307 | — | — | 4,600 | 109,374 |
| Wisconsin | — | — | 67 | 1,641 | 1,578 | 27,133 | — | — | 1,646 | 28,774 |
| **West North Central** | — | — | **338** | **7,573** | **8,339** | **144,105** | **1,973** | **25,675** | **10,651** | **177,353** |
| Iowa | — | — | 53 | 1,232 | 1,666 | 28,074 | — | — | 1,719 | 29,305 |
| Kansas | — | — | 39 | 868 | 1,640 | 28,090 | — | — | 1,679 | 28,958 |
| Minnesota | — | — | — | — | 1,097 | 19,458 | — | — | 1,097 | 19,458 |
| Missouri | — | — | 247 | 5,474 | 2,788 | 48,923 | — | — | 3,035 | 54,397 |
| Nebraska | — | — | — | — | 981 | 16,653 | — | — | 981 | 16,653 |
| North Dakota | — | — | — | — | * | 3 | 1,973 | 25,675 | 1,973 | 25,678 |
| South Dakota | — | — | — | — | 167 | 2,904 | — | — | 167 | 2,904 |
| **South Atlantic** | — | — | **12,722** | **317,824** | **666** | **11,625** | — | — | **13,388** | **329,450** |
| Delaware | — | — | 58 | 1,521 | — | — | — | — | 58 | 1,521 |
| District of Columbia | — | — | — | — | — | — | — | — | — | — |
| Florida | — | — | 2,019 | 49,853 | 14 | 251 | — | — | 2,033 | 50,103 |
| Georgia | — | — | 2,261 | 56,551 | 652 | 11,375 | — | — | 2,913 | 67,925 |
| Maryland | — | — | 890 | 23,064 | — | — | — | — | 890 | 23,064 |
| North Carolina | — | — | 2,203 | 54,974 | — | — | — | — | 2,203 | 54,974 |
| South Carolina | — | — | 1,159 | 29,627 | — | — | — | — | 1,159 | 29,627 |
| Virginia | — | — | 923 | 23,293 | — | — | — | — | 923 | 23,293 |
| West Virginia | — | — | 3,209 | 78,941 | — | — | — | — | 3,209 | 78,941 |
| **East South Central** | — | — | **6,808** | **162,183** | **1,201** | **21,166** | — | — | **8,009** | **183,349** |
| Alabama | — | — | 1,622 | 39,334 | 564 | 9,799 | — | — | 2,185 | 49,133 |
| Kentucky | — | — | 2,873 | 66,897 | 84 | 1,466 | — | — | 2,957 | 68,362 |
| Mississippi | — | — | 326 | 7,842 | 221 | 4,098 | — | — | 547 | 11,940 |
| Tennessee | — | — | 1,987 | 48,110 | 332 | 5,803 | — | — | 2,320 | 53,913 |
| **West South Central** | — | — | **102** | **2,207** | **7,777** | **133,394** | **4,071** | **51,395** | **11,950** | **186,996** |
| Arkansas | — | — | — | — | 1,286 | 22,309 | — | — | 1,286 | 22,309 |
| Louisiana | — | — | — | — | 949 | 16,021 | 288 | 3,910 | 1,237 | 19,931 |
| Oklahoma | — | — | 11 | 282 | 1,746 | 29,943 | — | — | 1,757 | 30,225 |
| Texas | — | — | 91 | 1,925 | 3,797 | 65,121 | 3,783 | 47,485 | 7,671 | 114,530 |
| **Mountain** | — | — | **3,387** | **74,768** | **5,462** | **97,135** | **25** | **328** | **8,873** | **172,231** |
| Arizona | — | — | 496 | 10,857 | 980 | 19,048 | — | — | 1,476 | 29,904 |
| Colorado | — | — | 904 | 19,519 | 514 | 8,815 | — | — | 1,417 | 28,333 |
| Idaho | — | — | — | — | — | — | — | — | — | — |
| Montana | — | — | — | — | 804 | 13,721 | 25 | 328 | 829 | 14,049 |
| Nevada | — | — | 701 | 15,834 | — | — | — | — | 701 | 15,834 |
| New Mexico | — | — | — | — | 1,313 | 23,547 | — | — | 1,313 | 23,547 |
| Utah | — | — | 1,080 | 24,467 | — | — | — | — | 1,080 | 24,467 |
| Wyoming | — | — | 205 | 4,091 | 1,852 | 32,004 | — | — | 2,057 | 36,095 |
| **Pacific Contiguous** | — | — | **69** | **1,593** | **593** | **9,862** | — | — | **662** | **11,455** |
| California | — | — | — | — | — | — | — | — | — | — |
| Oregon | — | — | 69 | 1,593 | 185 | 3,114 | — | — | 254 | 4,707 |
| Washington | — | — | — | — | 408 | 6,748 | — | — | 408 | 6,748 |
| **Pacific Noncontiguous** | — | — | — | — | — | — | — | — | — | — |
| Alaska | — | — | — | — | — | — | — | — | — | — |
| Hawaii | — | — | — | — | — | — | — | — | — | — |
| **U.S. Total** | — | — | **37,919** | **912,141** | **29,951** | **520,222** | **6,068** | **77,398** | **73,938** | **1,509,761** |

* The absolute value of the number is less than 0.5.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Data for 1999 are preliminary. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 34. Receipts and Average Cost of Coal Delivered to Electric Utilities by Census Division and State

| Census Division and State | February 1999 Receipts | | February 1998 Receipts | | Year to Date | | | |
|---|---|---|---|---|---|---|---|---|
| | (thousand short tons) | (billion Btu) | (thousand short tons) | (billion Btu) | Receipts (billion Btu) | | Average Cost (cents/million Btu)[1] | |
| | | | | | 1999 | 1998 | 1999 | 1998 |
| **New England** | **129** | **3,416** | **524** | **13,423** | **8,769** | **30,288** | **162.5** | **171.4** |
| Connecticut | — | — | 55 | 1,440 | 948 | 4,363 | 169.3 | 184.8 |
| Maine | — | — | — | — | — | — | — | — |
| Massachusetts | 16 | 410 | 340 | 8,598 | 1,542 | 18,180 | 173.6 | 171.7 |
| New Hampshire | 114 | 3,006 | 129 | 3,385 | 6,279 | 7,745 | 158.7 | 163.2 |
| Rhode Island | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — | — | — |
| **Middle Atlantic** | **4,133** | **103,637** | **4,333** | **107,692** | **207,009** | **220,635** | **136.2** | **139.7** |
| New Jersey | 196 | 5,093 | 106 | 2,755 | 9,771 | 7,543 | 149.0 | 168.5 |
| New York | 768 | 19,988 | 663 | 17,407 | 34,114 | 33,354 | 144.9 | 146.5 |
| Pennsylvania | 3,169 | 78,555 | 3,564 | 87,530 | 163,124 | 179,738 | 133.7 | 137.2 |
| **East North Central** | **16,143** | **341,876** | **16,095** | **340,867** | **650,074** | **701,665** | **127.3** | **128.4** |
| Illinois | 3,278 | 63,038 | 3,542 | 69,330 | 127,840 | 134,001 | 158.0 | 148.6 |
| Indiana | 4,823 | 102,467 | 4,694 | 97,635 | 196,684 | 200,920 | 111.9 | 113.1 |
| Michigan | 1,797 | 38,222 | 1,751 | 38,638 | 67,925 | 84,516 | 128.7 | 129.9 |
| Ohio | 4,600 | 109,374 | 4,447 | 105,395 | 199,852 | 217,952 | 130.5 | 137.0 |
| Wisconsin | 1,646 | 28,774 | 1,662 | 29,868 | 57,774 | 64,276 | 99.5 | 103.4 |
| **West North Central** | **10,651** | **177,353** | **10,601** | **177,163** | **373,391** | **371,712** | **85.8** | **89.1** |
| Iowa | 1,719 | 29,305 | 1,312 | 22,463 | 58,444 | 49,245 | 78.4 | 86.0 |
| Kansas | 1,679 | 28,958 | 1,626 | 28,362 | 60,843 | 57,729 | 91.4 | 97.3 |
| Minnesota | 1,097 | 19,458 | 1,595 | 28,271 | 42,889 | 57,850 | 109.0 | 110.5 |
| Missouri | 3,035 | 54,397 | 2,964 | 52,990 | 116,169 | 112,170 | 92.8 | 91.0 |
| Nebraska | 981 | 16,653 | 957 | 16,350 | 34,441 | 33,842 | 55.8 | 58.6 |
| North Dakota | 1,973 | 25,678 | 1,997 | 26,109 | 54,344 | 55,412 | 72.8 | 75.2 |
| South Dakota | 167 | 2,904 | 150 | 2,618 | 6,261 | 5,464 | 92.2 | 93.0 |
| ***South Atlantic*** | ***13,388*** | ***329,450*** | ***11,366*** | ***278,128*** | ***660,176*** | ***614,165*** | ***142.5*** | ***146.1*** |
| Delaware | 58 | 1,521 | 135 | 3,516 | 3,391 | 7,121 | 152.5 | 153.7 |
| District of Columbia | — | — | — | — | — | — | — | — |
| Florida | 2,033 | 50,103 | 1,978 | 47,896 | 107,169 | 104,885 | 161.8 | 172.0 |
| Georgia | 2,913 | 67,925 | 1,954 | 45,023 | 122,285 | 111,094 | 152.9 | 156.5 |
| Maryland | 890 | 23,064 | 944 | 24,158 | 45,693 | 47,110 | 141.6 | 147.5 |
| North Carolina | 2,203 | 54,974 | 1,877 | 46,387 | 111,361 | 107,495 | 144.1 | 142.2 |
| South Carolina | 1,159 | 29,627 | 908 | 23,216 | 57,577 | 49,433 | 145.0 | 145.2 |
| Virginia | 923 | 23,293 | 818 | 20,523 | 49,831 | 48,419 | 136.4 | 139.3 |
| West Virginia | 3,209 | 78,941 | 2,751 | 67,408 | 162,870 | 138,609 | 122.0 | 123.1 |
| **East South Central** | **8,009** | **183,349** | **8,148** | **188,002** | **366,881** | **398,956** | **125.9** | **125.9** |
| Alabama | 2,185 | 49,133 | 2,641 | 60,439 | 101,697 | 120,433 | 158.0 | 158.6 |
| Kentucky | 2,957 | 68,362 | 2,994 | 68,926 | 133,533 | 148,699 | 107.7 | 105.1 |
| Mississippi | 547 | 11,940 | 459 | 9,359 | 21,339 | 20,284 | 152.5 | 151.5 |
| Tennessee | 2,320 | 53,913 | 2,053 | 49,278 | 110,311 | 109,540 | 113.1 | 113.6 |
| **West South Central** | **11,950** | **186,996** | **10,277** | **161,011** | **396,583** | **356,992** | **122.3** | **129.3** |
| Arkansas | 1,286 | 22,309 | 951 | 16,419 | 46,875 | 36,501 | 148.0 | 146.6 |
| Louisiana | 1,237 | 19,931 | 1,036 | 17,008 | 39,647 | 37,225 | 137.8 | 140.3 |
| Oklahoma | 1,757 | 30,225 | 1,540 | 26,679 | 63,421 | 58,826 | 91.7 | 92.5 |
| Texas | 7,671 | 114,530 | 6,750 | 100,905 | 246,639 | 224,440 | 122.8 | 134.3 |
| **Mountain** | **8,873** | **172,231** | **8,495** | **165,595** | **368,407** | **347,340** | **109.6** | **107.1** |
| Arizona | 1,476 | 29,904 | 1,268 | 25,908 | 65,573 | 58,005 | 136.1 | 132.5 |
| Colorado | 1,417 | 28,333 | 1,369 | 27,076 | 59,813 | 55,761 | 98.8 | 98.7 |
| Idaho | — | — | — | — | — | — | — | — |
| Montana | 829 | 14,049 | 827 | 13,937 | 28,874 | 28,908 | 72.0 | 69.9 |
| Nevada | 701 | 15,834 | 723 | 16,164 | 33,944 | 32,061 | 132.9 | 129.0 |
| New Mexico | 1,313 | 23,547 | 1,075 | 19,460 | 48,215 | 42,541 | 138.6 | 131.4 |
| Utah | 1,080 | 24,467 | 1,205 | 27,163 | 55,098 | 55,702 | 111.8 | 112.7 |
| Wyoming | 2,057 | 36,095 | 2,028 | 35,886 | 76,891 | 74,362 | 79.4 | 80.5 |
| **Pacific Contiguous** | **662** | **11,455** | **514** | **8,528** | **23,822** | **17,978** | **137.7** | **146.8** |
| California | — | — | — | — | — | — | — | — |
| Oregon | 254 | 4,707 | 207 | 3,645 | 9,296 | 7,658 | 106.0 | 108.5 |
| Washington | 408 | 6,748 | 307 | 4,883 | 14,526 | 10,320 | 158.0 | 175.2 |
| **Pacific Noncontiguous** | — | — | — | — | — | — | — | — |
| Alaska | — | — | — | — | — | — | — | — |
| Hawaii | — | — | — | — | — | — | — | — |
| **U.S. Total** | **73,938** | **1,509,761** | **70,353** | **1,440,408** | **3,055,110** | **3,059,731** | **123.4** | **125.9** |

[1] Monetary values are expressed in nominal terms.

Notes: •Data for 1999 are preliminary. Data for 1998 are final. •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Coal includes lignite, bituminous coal, subbituminous coal, and anthracite. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data. •See footnotes 4 through 8 of Table 57 for information concerning delivered cost of coal to Alabama, Florida, Kentucky, and Tennessee.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 35. Receipts and Average Cost of Coal Delivered to Electric Utilities by Type of Purchase, Mining Method, Census Division, and State, February 1999

| Census Division and State | Type of Purchase | | | | | | Type of Mining | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Contract | | | Spot | | | Strip and Auger | | | Underground | | |
| | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | |
| | (1,000 short tons) | (Cents/ $10^6$ Btu) | ($/ short ton) | (1,000 short tons) | (Cents/ $10^6$ Btu) | ($/ short ton) | (1,000 short tons) | (Cents/ $10^6$ Btu) | ($/ short ton) | (1,000 short tons) | (Cents/ $10^6$ Btu) | ($/ short ton) |
| **New England** | **79** | **167.1** | **44.25** | **50** | **151.5** | **39.78** | **37** | **150.0** | **39.47** | **93** | **165.5** | **43.73** |
| Connecticut | — | — | — | — | — | — | — | — | — | — | — | — |
| Maine | — | — | — | — | — | — | — | — | — | — | — | — |
| Massachusetts | 16 | 191.3 | 50.00 | — | — | — | — | — | — | 16 | 191.3 | 50.00 |
| New Hampshire | 64 | 161.3 | 42.83 | 50 | 151.5 | 39.78 | 37 | 150.0 | 39.47 | 77 | 160.3 | 42.45 |
| Rhode Island | — | — | — | — | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — | — | — | — | — | — | — |
| **Middle Atlantic** | **3,534** | **142.4** | **35.74** | **600** | **112.0** | **27.93** | **1,203** | **124.2** | **30.22** | **2,930** | **143.4** | **36.40** |
| New Jersey | 196 | 149.0 | 38.77 | — | — | — | 72 | 154.0 | 39.01 | 124 | 146.3 | 38.64 |
| New York | 681 | 145.6 | 38.13 | 87 | 132.3 | 32.70 | 30 | 128.9 | 27.55 | 739 | 144.7 | 37.91 |
| Pennsylvania | 2,657 | 141.0 | 34.90 | 512 | 108.6 | 27.12 | 1,101 | 122.0 | 29.72 | 2,068 | 142.8 | 35.73 |
| **East North Central** | **12,429** | **132.7** | **27.69** | **3,715** | **111.0** | **24.63** | **11,296** | **124.3** | **24.95** | **4,847** | **133.6** | **31.73** |
| Illinois | 2,842 | 164.3 | 31.85 | 435 | 122.4 | 22.36 | 2,098 | 176.1 | 31.56 | 1,180 | 133.8 | 28.87 |
| Indiana | 3,845 | 112.8 | 23.52 | 978 | 109.2 | 24.94 | 3,796 | 105.7 | 21.80 | 1,027 | 132.4 | 31.23 |
| Michigan | 1,531 | 123.3 | 25.62 | 266 | 134.0 | 32.21 | 1,364 | 121.7 | 24.01 | 433 | 133.1 | 34.75 |
| Ohio | 2,983 | 145.8 | 34.63 | 1,617 | 108.0 | 25.73 | 2,416 | 131.1 | 30.31 | 2,184 | 134.0 | 32.82 |
| Wisconsin | 1,228 | 96.1 | 16.86 | 418 | 99.2 | 17.21 | 1,622 | 95.8 | 16.62 | 23 | 150.2 | 39.60 |
| **West North Central** | **8,327** | **86.7** | **14.25** | **2,324** | **86.1** | **15.00** | **10,494** | **85.4** | **14.14** | **156** | **140.6** | **32.57** |
| Iowa | 1,328 | 81.3 | 13.85 | 391 | 84.1 | 14.34 | 1,666 | 79.7 | 13.42 | 53 | 132.4 | 30.92 |
| Kansas | 1,287 | 98.8 | 17.01 | 392 | 67.1 | 11.64 | 1,679 | 91.4 | 15.76 | — | — | — |
| Minnesota | 1,037 | 108.8 | 19.29 | 60 | 118.7 | 21.20 | 1,097 | 109.3 | 19.39 | — | — | — |
| Missouri | 1,712 | 94.8 | 17.23 | 1,323 | 93.0 | 16.38 | 2,931 | 91.7 | 16.27 | 104 | 144.9 | 33.41 |
| Nebraska | 823 | 53.1 | 9.03 | 158 | 65.9 | 11.02 | 981 | 55.1 | 9.35 | — | — | — |
| North Dakota | 1,973 | 72.9 | 9.49 | * | 54.6 | 7.67 | 1,973 | 72.9 | 9.49 | — | — | — |
| South Dakota | 167 | 92.5 | 16.09 | — | — | — | 167 | 92.5 | 16.09 | — | — | — |
| **South Atlantic** | **10,086** | **142.3** | **35.57** | **3,302** | **139.9** | **32.74** | **5,987** | **145.4** | **35.01** | **7,401** | **138.8** | **34.76** |
| Delaware | 58 | 152.3 | 39.91 | — | — | — | 19 | 164.6 | 42.48 | 39 | 146.4 | 38.66 |
| District of Columbia | — | — | — | — | — | — | — | — | — | — | — | — |
| Florida | 1,497 | 166.4 | 40.86 | 536 | 153.6 | 38.24 | 676 | 167.8 | 41.54 | 1,356 | 160.6 | 39.49 |
| Georgia | 1,680 | 154.6 | 39.00 | 1,233 | 147.9 | 30.67 | 2,028 | 147.2 | 33.23 | 885 | 162.3 | 40.59 |
| Maryland | 747 | 139.8 | 36.11 | 143 | 145.3 | 38.25 | 347 | 140.7 | 35.42 | 543 | 140.7 | 37.12 |
| North Carolina | 1,697 | 145.5 | 36.29 | 506 | 136.5 | 34.15 | 1,149 | 143.7 | 35.88 | 1,053 | 143.2 | 35.71 |
| South Carolina | 965 | 143.2 | 36.75 | 194 | 150.3 | 37.66 | 369 | 151.2 | 38.18 | 790 | 141.3 | 36.31 |
| Virginia | 755 | 136.0 | 34.33 | 167 | 134.3 | 33.96 | 324 | 139.0 | 35.47 | 599 | 133.9 | 33.61 |
| West Virginia | 2,686 | 120.8 | 29.71 | 523 | 109.5 | 26.92 | 1,074 | 131.1 | 31.86 | 2,135 | 112.9 | 27.95 |
| **East South Central** | **6,749** | **126.3** | **28.59** | **1,260** | **121.0** | **29.36** | **3,281** | **116.2** | **24.78** | **4,728** | **131.1** | **31.44** |
| Alabama | 1,905 | 160.2 | 35.65 | 280 | 136.9 | 32.97 | 857 | 133.2 | 26.14 | 1,328 | 169.4 | 41.23 |
| Kentucky | 2,283 | 106.6 | 24.30 | 674 | 112.4 | 27.24 | 1,692 | 107.2 | 24.63 | 1,265 | 109.0 | 25.41 |
| Mississippi | 483 | 151.1 | 32.81 | 63 | 155.9 | 35.60 | 298 | 146.4 | 28.96 | 248 | 156.9 | 38.15 |
| Tennessee | 2,078 | 112.2 | 25.85 | 242 | 118.4 | 29.46 | 433 | 102.7 | 19.78 | 1,887 | 114.7 | 27.71 |
| **West South Central** | **11,103** | **128.1** | **19.91** | **848** | **123.8** | **21.09** | **11,950** | **127.8** | **20.00** | — | — | — |
| Arkansas | 1,135 | 152.1 | 26.51 | 150 | 131.9 | 22.16 | 1,286 | 149.9 | 26.00 | — | — | — |
| Louisiana | 1,237 | 138.2 | 22.27 | — | — | — | 1,237 | 138.2 | 22.27 | — | — | — |
| Oklahoma | 1,757 | 92.5 | 15.92 | — | — | — | 1,757 | 92.5 | 15.92 | — | — | — |
| Texas | 6,974 | 132.0 | 19.43 | 697 | 122.0 | 20.86 | 7,671 | 131.0 | 19.56 | — | — | — |
| **Mountain** | **8,563** | **111.7** | **21.64** | **310** | **116.3** | **23.96** | **7,101** | **110.1** | **20.44** | **1,772** | **117.8** | **26.83** |
| Arizona | 1,303 | 144.4 | 29.34 | 173 | 137.3 | 27.29 | 1,466 | 142.4 | 28.83 | 10 | 298.8 | 67.13 |
| Colorado | 1,360 | 98.7 | 19.77 | 57 | 70.9 | 13.48 | 1,074 | 100.1 | 19.09 | 343 | 91.0 | 20.83 |
| Idaho | — | — | — | — | — | — | — | — | — | — | — | — |
| Montana | 829 | 66.1 | 11.20 | — | — | — | 829 | 66.1 | 11.20 | — | — | — |
| Nevada | 622 | 145.8 | 32.80 | 80 | 104.2 | 24.25 | 363 | 145.3 | 32.11 | 338 | 136.5 | 31.52 |
| New Mexico | 1,313 | 136.8 | 24.54 | — | — | — | 1,313 | 136.8 | 24.54 | — | — | — |
| Utah | 1,080 | 118.8 | 26.90 | — | — | — | — | — | — | 1,080 | 118.8 | 26.90 |
| Wyoming | 2,057 | 81.0 | 14.22 | — | — | — | 2,057 | 81.0 | 14.22 | — | — | — |
| **Pacific Contiguous** | **310** | **180.2** | **28.48** | **352** | **111.0** | **20.67** | **593** | **146.5** | **24.36** | **69** | **104.0** | **24.01** |
| California | — | — | — | — | — | — | — | — | — | — | — | — |
| Oregon | — | — | — | 254 | 106.8 | 19.80 | 185 | 108.3 | 18.23 | 69 | 104.0 | 24.01 |
| Washington | 310 | 180.2 | 28.48 | 98 | 121.5 | 22.93 | 408 | 164.1 | 27.14 | — | — | — |
| **Pacific Noncontiguous** | — | — | — | — | — | — | — | — | — | — | — | — |
| Alaska | — | — | — | — | — | — | — | — | — | — | — | — |
| Hawaii | — | — | — | — | — | — | — | — | — | — | — | — |
| **U. S. Total** | **61,179** | **126.2** | **25.49** | **12,760** | **117.6** | **25.30** | **51,942** | **118.9** | **22.29** | **21,997** | **135.2** | **32.95** |

[1] Monetary values are expressed in nominal terms.

* = Less than 0.05.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Data for 1999 are preliminary. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data. •See footnotes 4 through 8 of Table 57 for information concerning delivered cost of coal to Alabama, Florida, Kentucky, and Tennessee.

## Table 36. Receipts and Average Cost of Coal Delivered to Electric Utilities by Sulfur Content, Census Division, and State, February 1999

| Census Division and State | 0.5% or Less | | | More than 0.5% up to 1.0% | | | More than 1.0% up to 1.5% | | |
|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | |
| | (1,000 short tons) | (Cents/ $10^6$ Btu) | ($/ short ton) | (1,000 short tons) | (Cents/ $10^6$ Btu) | ($/ short ton) | (1,000 short tons) | (Cents/ $10^6$ Btu) | ($/ short ton) |
| **New England** | — | — | — | **52** | **162.3** | **42.62** | — | — | — |
| Connecticut | — | — | — | — | — | — | — | — | — |
| Maine | — | — | — | — | — | — | — | — | — |
| Massachusetts | — | — | — | 16 | 191.3 | 50.00 | — | — | — |
| New Hampshire | — | — | — | 37 | 150.0 | 39.47 | — | — | — |
| Rhode Island | — | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — | — | — | — |
| **Middle Atlantic** | **9** | **184.1** | **47.73** | **535** | **153.2** | **38.75** | **483** | **142.5** | **35.81** |
| New Jersey | — | — | — | 160 | 141.4 | 37.15 | — | — | — |
| New York | 9 | 184.1 | 47.73 | 184 | 167.4 | 42.21 | 35 | 140.9 | 37.09 |
| Pennsylvania | — | — | — | 191 | 149.7 | 36.76 | 448 | 142.7 | 35.71 |
| **East North Central** | **5,465** | **117.2** | **20.55** | **4,234** | **145.7** | **33.31** | **1,034** | **121.5** | **28.98** |
| Illinois | 1,478 | 161.6 | 29.08 | 858 | 208.2 | 39.30 | 50 | 111.9 | 23.47 |
| Indiana | 1,326 | 105.3 | 18.38 | 754 | 135.2 | 31.55 | 526 | 118.0 | 26.67 |
| Michigan | 951 | 101.0 | 17.69 | 503 | 152.9 | 38.07 | 287 | 130.6 | 34.47 |
| Ohio | 131 | 118.5 | 20.80 | 2,087 | 127.2 | 30.26 | 157 | 114.4 | 27.94 |
| Wisconsin | 1,578 | 93.5 | 16.08 | 32 | 158.0 | 37.99 | 14 | 154.4 | 34.69 |
| **West North Central** | **7,776** | **85.8** | **14.86** | **2,402** | **85.5** | **12.29** | **383** | **97.7** | **15.57** |
| Iowa | 1,719 | 81.9 | 13.96 | — | — | — | — | — | — |
| Kansas | 1,640 | 90.9 | 15.57 | — | — | — | — | — | — |
| Minnesota | 645 | 106.4 | 19.05 | 452 | 113.5 | 19.88 | — | — | — |
| Missouri | 2,814 | 90.5 | 15.92 | 77 | 104.0 | 21.73 | 94 | 146.3 | 33.90 |
| Nebraska | 958 | 54.8 | 9.31 | 23 | 67.5 | 11.17 | — | — | — |
| North Dakota | — | — | — | 1,684 | 73.3 | 9.47 | 289 | 70.9 | 9.63 |
| South Dakota | — | — | — | 167 | 92.5 | 16.09 | — | — | — |
| **South Atlantic** | **685** | **150.9** | **26.71** | **6,721** | **148.0** | **36.82** | **2,979** | **144.9** | **36.72** |
| Delaware | — | — | — | 27 | 162.5 | 41.86 | 31 | 143.9 | 38.25 |
| District of Columbia | — | — | — | — | — | — | — | — | — |
| Florida | 33 | 147.2 | 33.39 | 927 | 164.3 | 40.77 | 367 | 182.8 | 46.50 |
| Georgia | 652 | 151.1 | 26.37 | 1,424 | 157.3 | 39.14 | 764 | 143.1 | 36.14 |
| Maryland | — | — | — | 372 | 139.0 | 35.07 | 228 | 143.1 | 37.48 |
| North Carolina | — | — | — | 1,919 | 144.3 | 36.07 | 284 | 137.8 | 33.95 |
| South Carolina | — | — | — | 217 | 157.2 | 40.01 | 736 | 140.5 | 35.96 |
| Virginia | — | — | — | 483 | 137.2 | 34.81 | 417 | 133.9 | 33.72 |
| West Virginia | — | — | — | 1,352 | 136.7 | 33.31 | 152 | 128.5 | 31.58 |
| **East South Central** | **1,680** | **121.5** | **23.47** | **2,230** | **153.4** | **37.21** | **802** | **120.0** | **29.56** |
| Alabama | 588 | 120.6 | 21.36 | 889 | 196.2 | 47.58 | 105 | 142.1 | 34.46 |
| Kentucky | 348 | 124.5 | 27.49 | 842 | 117.2 | 28.68 | 400 | 111.4 | 26.99 |
| Mississippi | 283 | 147.3 | 28.68 | 241 | 157.6 | 38.28 | — | — | — |
| Tennessee | 461 | 103.9 | 19.92 | 258 | 120.4 | 28.28 | 298 | 123.7 | 31.30 |
| **West South Central** | **8,423** | **133.7** | **22.36** | **1,523** | **115.9** | **15.69** | **1,696** | **108.3** | **14.15** |
| Arkansas | 1,286 | 149.9 | 26.00 | — | — | — | — | — | — |
| Louisiana | 754 | 140.8 | 23.70 | 283 | 132.4 | 21.22 | 200 | 135.5 | 18.35 |
| Oklahoma | 1,746 | 92.4 | 15.85 | — | — | — | — | — | — |
| Texas | 4,637 | 144.1 | 23.59 | 1,240 | 111.3 | 14.42 | 1,496 | 104.5 | 13.59 |
| **Mountain** | **3,606** | **107.0** | **20.25** | **5,267** | **115.1** | **22.72** | — | — | — |
| Arizona | 582 | 150.6 | 30.05 | 894 | 139.2 | 28.48 | — | — | — |
| Colorado | 1,061 | 100.4 | 19.12 | 356 | 90.6 | 20.67 | — | — | — |
| Idaho | — | — | — | — | — | — | — | — | — |
| Montana | 77 | 65.5 | 10.18 | 752 | 66.1 | 11.30 | — | — | — |
| Nevada | 201 | 143.4 | 32.48 | 500 | 140.0 | 31.56 | — | — | — |
| New Mexico | — | — | — | 1,313 | 136.8 | 24.54 | — | — | — |
| Utah | 546 | 152.6 | 33.91 | 534 | 85.5 | 19.74 | — | — | — |
| Wyoming | 1,139 | 50.8 | 8.28 | 918 | 113.0 | 21.58 | — | — | — |
| **Pacific Contiguous** | **283** | **113.2** | **19.85** | **379** | **161.5** | **27.66** | — | — | — |
| California | — | — | — | — | — | — | — | — | — |
| Oregon | 185 | 108.3 | 18.23 | 69 | 104.0 | 24.01 | — | — | — |
| Washington | 98 | 121.5 | 22.93 | 310 | 180.2 | 28.48 | — | — | — |
| **Pacific Noncontiguous** | — | — | — | — | — | — | — | — | — |
| Alaska | — | — | — | — | — | — | — | — | — |
| Hawaii | — | — | — | — | — | — | — | — | — |
| **U. S. Total** | **27,926** | **113.0** | **19.80** | **23,344** | **136.0** | **29.04** | **7,376** | **131.2** | **28.51** |

[1] Monetary values are expressed in nominal terms.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Data for 1999 are preliminary. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report on Cost and Quality of Fuels for Electric Plants."

## Table 36. Receipts and Average Cost of Coal Delivered to Electric Utilities by Sulfur Content, Census Division, and State, February 1999 (Continued)

| Census Division and State | More than 1.5% up to 2.0% | | | More than 2.0% up to 3.0% | | | More than 3.0% | | | All Purchases | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | | | |
| | (1,000 short tons) | (Cents/ $10^6$ Btu) | ($/ short ton) | (1,000 short tons) | (Cents/ $10^6$ Btu) | ($/ short ton) | (1,000 short tons) | (Cents/ $10^6$ Btu) | ($/ short ton) | (Cents/ $10^6$ Btu) | ($/ short ton) |
| **New England** | **58** | **160.3** | **42.33** | **19** | **160.4** | **42.84** | — | — | — | **161.1** | **42.52** |
| Connecticut | — | — | — | — | — | — | — | — | — | — | — |
| Maine | — | — | — | — | — | — | — | — | — | — | — |
| Massachusetts | — | — | — | — | — | — | — | — | — | 191.3 | 50.00 |
| New Hampshire | 58 | 160.3 | 42.33 | 19 | 160.4 | 42.84 | — | — | — | 157.0 | 41.49 |
| Rhode Island | — | — | — | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — | — | — | — | — | — |
| **Middle Atlantic** | **1,168** | **129.2** | **32.70** | **1,315** | **126.6** | **32.27** | **624** | **163.1** | **38.38** | **138.0** | **34.60** |
| New Jersey | — | — | — | 36 | 184.5 | 45.94 | — | — | — | 149.0 | 38.77 |
| New York | 222 | 140.6 | 36.95 | 319 | 133.1 | 34.94 | — | — | — | 144.2 | 37.51 |
| Pennsylvania | 947 | 126.4 | 31.71 | 960 | 122.2 | 30.87 | 624 | 163.1 | 38.38 | 135.7 | 33.64 |
| **East North Central** | **544** | **113.8** | **26.70** | **2,609** | **109.0** | **25.07** | **2,258** | **139.9** | **32.10** | **127.4** | **26.99** |
| Illinois | 18 | 123.1 | 25.49 | 583 | 106.9 | 23.20 | 291 | 136.1 | 28.93 | 159.1 | 30.59 |
| Indiana | 365 | 110.8 | 24.62 | 1,105 | 102.7 | 23.15 | 747 | 107.4 | 24.15 | 112.0 | 23.80 |
| Michigan | 12 | 134.8 | 35.41 | 7 | 152.5 | 37.42 | 38 | 129.0 | 33.57 | 125.1 | 26.60 |
| Ohio | 128 | 112.9 | 30.03 | 914 | 116.7 | 28.48 | 1,181 | 160.7 | 37.86 | 132.5 | 31.50 |
| Wisconsin | 21 | 145.9 | 38.38 | — | — | — | — | — | — | 96.9 | 16.95 |
| **West North Central** | **1** | **123.3** | **28.95** | **14** | **148.4** | **32.96** | **74** | **117.7** | **26.19** | **86.5** | **14.41** |
| Iowa | — | — | — | — | — | — | — | — | — | 81.9 | 13.96 |
| Kansas | — | — | — | — | — | — | 39 | 106.0 | 23.76 | 91.4 | 15.76 |
| Minnesota | — | — | — | — | — | — | — | — | — | 109.3 | 19.39 |
| Missouri | 1 | 123.3 | 28.95 | 14 | 148.4 | 32.96 | 35 | 130.6 | 28.84 | 94.0 | 16.86 |
| Nebraska | — | — | — | — | — | — | — | — | — | 55.1 | 9.35 |
| North Dakota | — | — | — | — | — | — | — | — | — | 72.9 | 9.49 |
| South Dakota | — | — | — | — | — | — | — | — | — | 92.5 | 16.09 |
| **South Atlantic** | **1,341** | **123.4** | **31.27** | **390** | **138.0** | **33.88** | **1,270** | **117.9** | **28.78** | **141.7** | **34.87** |
| Delaware | — | — | — | — | — | — | — | — | — | 152.3 | 39.91 |
| District of Columbia | — | — | — | — | — | — | — | — | — | — | — |
| Florida | 19 | 159.8 | 39.39 | 358 | 138.3 | 33.80 | 328 | 164.8 | 39.09 | 163.0 | 40.17 |
| Georgia | 73 | 153.4 | 38.13 | — | — | — | — | — | — | 152.1 | 35.47 |
| Maryland | 277 | 141.2 | 37.47 | 13 | 137.1 | 36.40 | — | — | — | 140.7 | 36.46 |
| North Carolina | — | — | — | — | — | — | — | — | — | 143.4 | 35.80 |
| South Carolina | 190 | 145.0 | 37.09 | 16 | 143.3 | 36.25 | — | — | — | 144.4 | 36.91 |
| Virginia | 23 | 136.2 | 32.70 | — | — | — | — | — | — | 135.7 | 34.27 |
| West Virginia | 759 | 106.8 | 26.64 | 3 | 82.1 | 20.06 | 942 | 102.2 | 25.20 | 118.9 | 29.26 |
| **East South Central** | **943** | **123.0** | **30.12** | **1,151** | **110.0** | **26.40** | **1,202** | **95.0** | **20.82** | **125.4** | **28.71** |
| Alabama | 297 | 143.2 | 34.46 | 236 | 113.7 | 27.97 | 70 | 109.8 | 26.18 | 157.0 | 35.31 |
| Kentucky | 62 | 107.6 | 26.80 | 174 | 107.3 | 25.76 | 1,131 | 94.0 | 20.49 | 108.0 | 24.97 |
| Mississippi | — | — | — | 23 | 134.1 | 34.10 | — | — | — | 151.7 | 33.14 |
| Tennessee | 584 | 114.6 | 28.27 | 719 | 108.6 | 25.79 | — | — | — | 112.9 | 26.23 |
| **West South Central** | **298** | **79.0** | **8.18** | — | — | — | **11** | **101.6** | **26.26** | **127.8** | **20.00** |
| Arkansas | — | — | — | — | — | — | — | — | — | 149.9 | 26.00 |
| Louisiana | — | — | — | — | — | — | — | — | — | 138.2 | 22.27 |
| Oklahoma | — | — | — | — | — | — | 11 | 101.6 | 26.26 | 92.5 | 15.92 |
| Texas | 298 | 79.0 | 8.18 | — | — | — | — | — | — | 131.0 | 19.56 |
| **Mountain** | — | — | — | — | — | — | — | — | — | **111.9** | **21.72** |
| Arizona | — | — | — | — | — | — | — | — | — | 143.6 | 29.10 |
| Colorado | — | — | — | — | — | — | — | — | — | 97.6 | 19.51 |
| Idaho | — | — | — | — | — | — | — | — | — | — | — |
| Montana | — | — | — | — | — | — | — | — | — | 66.1 | 11.20 |
| Nevada | — | — | — | — | — | — | — | — | — | 141.0 | 31.83 |
| New Mexico | — | — | — | — | — | — | — | — | — | 136.8 | 24.54 |
| Utah | — | — | — | — | — | — | — | — | — | 118.8 | 26.90 |
| Wyoming | — | — | — | — | — | — | — | — | — | 81.0 | 14.22 |
| **Pacific Contiguous** | — | — | — | — | — | — | — | — | — | **140.6** | **24.32** |
| California | — | — | — | — | — | — | — | — | — | — | — |
| Oregon | — | — | — | — | — | — | — | — | — | 106.8 | 19.80 |
| Washington | — | — | — | — | — | — | — | — | — | 164.1 | 27.14 |
| **Pacific Noncontiguous** | — | — | — | — | — | — | — | — | — | — | — |
| Alaska | — | — | — | — | — | — | — | — | — | — | — |
| Hawaii | — | — | — | — | — | — | — | — | — | — | — |
| **U. S. Total** | **4,354** | **123.0** | **29.40** | **5,499** | **116.1** | **27.78** | **5,438** | **127.4** | **29.46** | **124.7** | **25.46** |

[1] Monetary values are expressed in nominal terms.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Data for 1999 are preliminary. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data. •See footnotes 4 through 8 of Table 57 for information concerning delivered cost of coal to Alabama, Florida, Kentucky, and Tennessee.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report on Cost and Quality of Fuels for Electric Plants."

## Table 37. Electric Utility Receipts of Petroleum by Type, Census Division, and State, February 1999

| Census Division and State | No. 2 Fuel Oil | | No. 4 Fuel Oil[1] | | No. 5 Fuel Oil[1] | | No. 6 Fuel Oil | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|
| | (thousand barrels) | (billion Btu) | (thousand barrels) | (billion Btu) | (thousand barrels) | (billion Btu) | (thousand barrels) | (billion Btu) | (thousand barrels) | (billion Btu) |
| **New England** | **6** | **38** | — | — | — | — | **2,075** | **13,249** | **2,081** | **13,286** |
| Connecticut | 1 | 7 | — | — | — | — | 1,595 | 10,174 | 1,596 | 10,181 |
| Maine | — | — | — | — | — | — | 243 | 1,542 | 243 | 1,542 |
| Massachusetts | 3 | 20 | — | — | — | — | 20 | 125 | 23 | 145 |
| New Hampshire | 2 | 10 | — | — | — | — | 217 | 1,407 | 219 | 1,417 |
| Rhode Island | — | — | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — | — | — | — | — |
| **Middle Atlantic** | **49** | **285** | — | — | — | — | **2,038** | **12,930** | **2,087** | **13,215** |
| New Jersey | 2 | 9 | — | — | — | — | 1 | 6 | 2 | 15 |
| New York | 3 | 17 | — | — | — | — | 1,282 | 8,089 | 1,285 | 8,105 |
| Pennsylvania | 44 | 259 | — | — | — | — | 755 | 4,836 | 799 | 5,095 |
| **East North Central** | **87** | **502** | **2** | **9** | — | — | **123** | **767** | **211** | **1,278** |
| Illinois | 21 | 121 | — | — | — | — | — | — | 21 | 121 |
| Indiana | 19 | 110 | — | — | — | — | — | — | 19 | 110 |
| Michigan | 13 | 76 | 2 | 9 | — | — | 123 | 767 | 138 | 853 |
| Ohio | 31 | 182 | — | — | — | — | — | — | 31 | 182 |
| Wisconsin | 2 | 13 | — | — | — | — | — | — | 2 | 13 |
| **West North Central** | **24** | **141** | — | — | — | — | **8** | **55** | **32** | **197** |
| Iowa | 4 | 25 | — | — | — | — | — | — | 4 | 25 |
| Kansas | — | — | — | — | — | — | 8 | 55 | 8 | 55 |
| Minnesota | 2 | 9 | — | — | — | — | — | — | 2 | 9 |
| Missouri | 12 | 71 | — | — | — | — | — | — | 12 | 71 |
| Nebraska | 2 | 13 | — | — | — | — | — | — | 2 | 13 |
| North Dakota | 4 | 23 | — | — | — | — | — | — | 4 | 23 |
| South Dakota | — | — | — | — | — | — | — | — | — | — |
| **South Atlantic** | **91** | **535** | — | — | — | — | **4,226** | **26,987** | **4,317** | **27,521** |
| Delaware | 6 | 32 | — | — | — | — | — | — | 6 | 32 |
| District of Columbia | — | — | — | — | — | — | — | — | — | — |
| Florida | 39 | 230 | — | — | — | — | 4,029 | 25,730 | 4,068 | 25,961 |
| Georgia | 9 | 52 | — | — | — | — | — | — | 9 | 52 |
| Maryland | 1 | 7 | — | — | — | — | 197 | 1,256 | 198 | 1,264 |
| North Carolina | 18 | 102 | — | — | — | — | — | — | 18 | 102 |
| South Carolina | 1 | 7 | — | — | — | — | — | — | 1 | 7 |
| Virginia | 1 | 8 | — | — | — | — | — | — | 1 | 8 |
| West Virginia | 16 | 97 | — | — | — | — | — | — | 16 | 97 |
| **East South Central** | **70** | **409** | — | — | — | — | **874** | **5,788** | **944** | **6,198** |
| Alabama | 19 | 113 | — | — | — | — | — | — | 19 | 113 |
| Kentucky | 23 | 137 | — | — | — | — | — | — | 23 | 137 |
| Mississippi | 9 | 53 | — | — | — | — | 874 | 5,788 | 883 | 5,841 |
| Tennessee | 18 | 107 | — | — | — | — | — | — | 18 | 107 |
| **West South Central** | **51** | **299** | — | — | — | — | **104** | **683** | **155** | **981** |
| Arkansas | 7 | 42 | — | — | — | — | — | — | 7 | 42 |
| Louisiana | 20 | 118 | — | — | — | — | 104 | 683 | 124 | 800 |
| Oklahoma | — | — | — | — | — | — | — | — | — | — |
| Texas | 24 | 139 | — | — | — | — | — | — | 24 | 139 |
| **Mountain** | **24** | **141** | — | — | — | — | — | — | **24** | **141** |
| Arizona | 9 | 55 | — | — | — | — | — | — | 9 | 55 |
| Colorado | — | — | — | — | — | — | — | — | — | — |
| Idaho | — | — | — | — | — | — | — | — | — | — |
| Montana | 1 | 6 | — | — | — | — | — | — | 1 | 6 |
| Nevada | 2 | 14 | — | — | — | — | — | — | 2 | 14 |
| New Mexico | 7 | 40 | — | — | — | — | — | — | 7 | 40 |
| Utah | 2 | 9 | — | — | — | — | — | — | 2 | 9 |
| Wyoming | 3 | 18 | — | — | — | — | — | — | 3 | 18 |
| **Pacific Contiguous** | — | — | — | — | — | — | — | — | — | — |
| California | — | — | — | — | — | — | — | — | — | — |
| Oregon | — | — | — | — | — | — | — | — | — | — |
| Washington | — | — | — | — | — | — | — | — | — | — |
| **Pacific Noncontiguous** | — | — | — | — | — | — | **564** | **3,552** | **564** | **3,552** |
| Alaska | — | — | — | — | — | — | — | — | — | — |
| Hawaii | — | — | — | — | — | — | 564 | 3,552 | 564 | 3,552 |
| **U.S. Total** | **403** | **2,350** | **2** | **9** | — | — | **10,012** | **64,011** | **10,417** | **66,370** |

[1] Blend of No. 2 Fuel Oil and No. 6 Fuel Oil.

Notes: •Totals may not equal sum of components because of independent rounding. •Totals may include small quantities of jet fuel or kerosene. •Data are for electric generating plants with total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Data for 1999 are preliminary. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 38. Receipts and Average Cost of Petroleum Delivered to Electric Utilities by Census Division and State

| Census Division and State | February 1999 Receipts | | February 1998 Receipts | | Year to Date | | | |
|---|---|---|---|---|---|---|---|---|
| | (thousand barrels) | (billion Btu) | (thousand barrels) | (billion Btu) | Receipts (billion Btu) | | Average Cost (cents/million Btu)[1] | |
| | | | | | 1999 | 1998 | 1999 | 1998 |
| **New England** | **2,081** | **13,286** | **4,038** | **25,704** | **28,495** | **53,096** | **167.8** | **214.4** |
| Connecticut | 1,596 | 10,181 | 1,413 | 9,048 | 20,012 | 19,348 | 167.4 | 232.7 |
| Maine | 243 | 1,542 | 211 | 1,353 | 5,215 | 4,548 | 177.2 | 242.1 |
| Massachusetts | 23 | 145 | 2,410 | 15,279 | 668 | 26,537 | 217.8 | 197.1 |
| New Hampshire | 219 | 1,417 | 4 | 24 | 2,600 | 2,652 | 139.4 | 205.1 |
| Rhode Island | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | 11 | — | 376.5 |
| **Middle Atlantic** | **2,087** | **13,215** | **1,194** | **7,560** | **36,605** | **20,241** | **179.5** | **226.5** |
| New Jersey | 2 | 15 | 6 | 39 | 993 | 1,015 | 184.0 | 250.7 |
| New York | 1,285 | 8,105 | 756 | 4,780 | 27,791 | 16,093 | 168.5 | 224.2 |
| Pennsylvania | 799 | 5,095 | 432 | 2,742 | 7,821 | 3,133 | 217.9 | 230.6 |
| **East North Central** | **211** | **1,278** | **186** | **1,083** | **3,324** | **1,839** | **266.1** | **343.1** |
| Illinois | 21 | 121 | 13 | 74 | 805 | 187 | 266.8 | 333.7 |
| Indiana | 19 | 110 | 36 | 205 | 376 | 353 | 276.3 | 353.8 |
| Michigan | 138 | 853 | 72 | 423 | 1,566 | 697 | 254.9 | 326.6 |
| Ohio | 31 | 182 | 60 | 348 | 535 | 550 | 288.7 | 355.7 |
| Wisconsin | 2 | 13 | 6 | 34 | 41 | 52 | 290.1 | 393.5 |
| **West North Central** | **32** | **197** | **33** | **190** | **401** | **457** | **250.5** | **338.2** |
| Iowa | 4 | 25 | 3 | 20 | 117 | 20 | 270.0 | 381.1 |
| Kansas | 8 | 55 | 7 | 41 | 96 | 94 | 173.6 | 363.0 |
| Minnesota | 2 | 9 | 2 | 11 | 38 | 32 | 285.1 | 407.1 |
| Missouri | 12 | 71 | 10 | 58 | 99 | 184 | 269.3 | 293.2 |
| Nebraska | 2 | 13 | 3 | 15 | 14 | 31 | 281.5 | 369.8 |
| North Dakota | 4 | 23 | 8 | 44 | 37 | 95 | 290.1 | 358.1 |
| South Dakota | — | — | — | — | — | — | — | — |
| **South Atlantic** | **4,317** | **27,521** | **2,626** | **16,736** | **63,052** | **31,060** | **170.5** | **213.3** |
| Delaware | 6 | 32 | 16 | 98 | 280 | 146 | 220.2 | 282.7 |
| District of Columbia | — | — | — | — | 12 | — | 268.4 | — |
| Florida | 4,068 | 25,961 | 2,286 | 14,613 | 51,376 | 26,347 | 166.3 | 205.9 |
| Georgia | 9 | 52 | 14 | 84 | 392 | 143 | 294.2 | 373.5 |
| Maryland | 198 | 1,264 | 38 | 240 | 5,527 | 2,244 | 180.5 | 240.7 |
| North Carolina | 18 | 102 | 9 | 55 | 272 | 242 | 255.9 | 363.0 |
| South Carolina | 1 | 7 | 3 | 14 | 95 | 28 | 281.2 | 366.4 |
| Virginia | 1 | 8 | 226 | 1,434 | 4,926 | 1,635 | 178.7 | 219.3 |
| West Virginia | 16 | 97 | 34 | 197 | 173 | 276 | 311.3 | 395.9 |
| **East South Central** | **944** | **6,198** | **610** | **4,012** | **13,108** | **8,126** | **159.0** | **261.6** |
| Alabama | 19 | 113 | 10 | 61 | 181 | 109 | 178.1 | 325.7 |
| Kentucky | 23 | 137 | 7 | 39 | 284 | 130 | 331.7 | 396.9 |
| Mississippi | 883 | 5,841 | 582 | 3,847 | 12,440 | 7,817 | 153.2 | 257.7 |
| Tennessee | 18 | 107 | 11 | 64 | 202 | 70 | 256.8 | 347.2 |
| **West South Central** | **155** | **981** | **128** | **797** | **1,974** | **1,718** | **249.4** | **283.3** |
| Arkansas | 7 | 42 | 8 | 46 | 77 | 75 | 304.4 | 422.4 |
| Louisiana | 124 | 800 | 90 | 568 | 1,717 | 1,265 | 248.2 | 253.6 |
| Oklahoma | — | — | — | — | — | — | — | — |
| Texas | 24 | 139 | 31 | 183 | 180 | 378 | 237.2 | 354.7 |
| **Mountain** | **24** | **141** | **49** | **288** | **309** | **495** | **372.8** | **451.3** |
| Arizona | 9 | 55 | 25 | 145 | 123 | 218 | 357.8 | 475.1 |
| Colorado | — | — | — | — | — | — | — | — |
| Idaho | — | — | — | — | — | — | — | — |
| Montana | 1 | 6 | 2 | 12 | 36 | 12 | 352.7 | 669.7 |
| Nevada | 2 | 14 | 2 | 14 | 29 | 51 | 305.5 | 399.4 |
| New Mexico | 7 | 40 | 2 | 11 | 63 | 34 | 344.3 | 492.9 |
| Utah | 2 | 9 | 6 | 35 | 22 | 59 | 529.1 | 446.8 |
| Wyoming | 3 | 18 | 12 | 71 | 36 | 121 | 450.7 | 399.5 |
| **Pacific Contiguous** | — | — | **53** | **322** | — | **450** | — | **305.1** |
| California | — | — | 51 | 310 | — | 432 | — | 297.6 |
| Oregon | — | — | — | — | — | — | — | — |
| Washington | — | — | 2 | 12 | — | 18 | — | 483.4 |
| **Pacific Noncontiguous** | **564** | **3,552** | **337** | **2,118** | **7,837** | **5,619** | **221.6** | **324.3** |
| Alaska | — | — | — | — | — | — | — | — |
| Hawaii | 564 | 3,552 | 337 | 2,118 | 7,837 | 5,619 | 221.6 | 324.3 |
| **U.S. Total** | **10,417** | **66,370** | **9,255** | **58,810** | **155,104** | **123,102** | **177.4** | **228.9** |

[1] Monetary values are expressed in nominal terms.

Notes: •Data for 1999 are preliminary. Data for 1998 are final. •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •The February 1999 petroleum coke receipts were 286,9 short tons and the cost was 7 62. cents per million Btu. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 39. Receipts and Average Cost of Petroleum Delivered to Electric Utilities by Type of Purchase, Census Division, and State, February 1999

| Census Division and State | Fuel Oil No. 6 by Type of Purchase | | | | | | Averaged Cost of Fuel Oils[1] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Contract | | | Spot | | | No. 2 | | No. 4-No. 5 | | No. 6 | |
| | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | | | | | | | |
| | (1,000 bbls) | (Cents/ $10^6$ Btu) | ($/ bbl) | (1,000 bbls) | (Cents/ $10^6$ Btu) | ($/ bbl) | (Cents/ $10^6$ Btu) | ($/ bbl) | (Cents/ $10^6$ Btu) | ($/ bbl) | (Cents/ $10^6$ Btu) | ($/ bbl) |
| **New England** | **438** | **153.3** | **9.83** | **1,637** | **162.2** | **10.35** | **255.0** | **14.78** | **—** | **—** | **160.3** | **10.24** |
| Connecticut | 438 | 153.3 | 9.83 | 1,157 | 168.3 | 10.72 | 259.4 | 15.03 | — | — | 164.2 | 10.47 |
| Maine | — | — | — | 243 | 163.5 | 10.39 | — | — | — | — | 163.5 | 10.39 |
| Massachusetts | — | — | — | 20 | 206.3 | 13.02 | 262.1 | 15.21 | — | — | 206.3 | 13.02 |
| New Hampshire | — | — | — | 217 | 124.6 | 8.07 | 237.9 | 13.77 | — | — | 124.6 | 8.07 |
| Rhode Island | — | — | — | — | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — | — | — | — | — | — | — |
| **Middle Atlantic** | **525** | **123.2** | **7.84** | **1,513** | **181.7** | **11.52** | **270.2** | **15.74** | **—** | **—** | **166.6** | **10.57** |
| New Jersey | 1 | 178.4 | 11.34 | — | — | — | 278.4 | 16.31 | — | — | 178.4 | 11.34 |
| New York | 524 | 123.1 | 7.83 | 758 | 148.2 | 9.30 | 326.6 | 18.42 | — | — | 137.9 | 8.70 |
| Pennsylvania | — | — | — | 755 | 214.7 | 13.75 | 266.3 | 15.55 | — | — | 214.7 | 13.75 |
| **East North Central** | **—** | **—** | **—** | **123** | **255.8** | **15.96** | **271.5** | **15.70** | **221.7** | **13.17** | **255.8** | **15.96** |
| Illinois | — | — | — | — | — | — | 289.3 | 16.69 | — | — | — | — |
| Indiana | — | — | — | — | — | — | 261.8 | 15.08 | — | — | — | — |
| Michigan | — | — | — | 123 | 255.8 | 15.96 | 286.3 | 16.59 | 221.7 | 13.17 | 255.8 | 15.96 |
| Ohio | — | — | — | — | — | — | 259.0 | 15.00 | — | — | — | — |
| Wisconsin | — | — | — | — | — | — | 277.1 | 16.29 | — | — | — | — |
| **West North Central** | **—** | **—** | **—** | **8** | **88.3** | **6.10** | **276.4** | **16.03** | **—** | **—** | **88.3** | **6.10** |
| Iowa | — | — | — | — | — | — | 270.8 | 15.48 | — | — | — | — |
| Kansas | — | — | — | 8 | 88.3 | 6.10 | — | — | — | — | 88.3 | 6.10 |
| Minnesota | — | — | — | — | — | — | 301.5 | 17.35 | — | — | — | — |
| Missouri | — | — | — | — | — | — | 271.1 | 15.78 | — | — | — | — |
| Nebraska | — | — | — | — | — | — | 280.0 | 16.18 | — | — | — | — |
| North Dakota | — | — | — | — | — | — | 286.1 | 16.74 | — | — | — | — |
| South Dakota | — | — | — | — | — | — | — | — | — | — | — | — |
| **South Atlantic** | **1,551** | **155.4** | **10.02** | **2,675** | **168.7** | **10.72** | **266.4** | **15.57** | **—** | **—** | **163.8** | **10.46** |
| Delaware | — | — | — | — | — | — | 254.3 | 14.79 | — | — | — | — |
| District of Columbia | — | — | — | — | — | — | — | — | — | — | — | — |
| Florida | 1,368 | 156.7 | 10.11 | 2,661 | 168.9 | 10.73 | 265.9 | 15.59 | — | — | 164.7 | 10.52 |
| Georgia | — | — | — | — | — | — | 263.5 | 15.33 | — | — | — | — |
| Maryland | 183 | 145.6 | 9.31 | 14 | 140.9 | 8.99 | 255.0 | 14.98 | — | — | 145.3 | 9.28 |
| North Carolina | — | — | — | — | — | — | 241.2 | 14.02 | — | — | — | — |
| South Carolina | — | — | — | — | — | — | 280.6 | 16.27 | — | — | — | — |
| Virginia | — | — | — | — | — | — | 242.6 | 14.12 | — | — | — | — |
| West Virginia | — | — | — | — | — | — | 301.4 | 17.70 | — | — | — | — |
| **East South Central** | **—** | **—** | **—** | **874** | **144.2** | **9.55** | **261.4** | **15.36** | **—** | **—** | **144.2** | **9.55** |
| Alabama | — | — | — | — | — | — | 176.0 | 10.34 | — | — | — | — |
| Kentucky | — | — | — | — | — | — | 331.8 | 19.47 | — | — | — | — |
| Mississippi | — | — | — | 874 | 144.2 | 9.55 | 284.0 | 16.73 | — | — | 144.2 | 9.55 |
| Tennessee | — | — | — | — | — | — | 250.2 | 14.70 | — | — | — | — |
| **West South Central** | **—** | **—** | **—** | **104** | **168.5** | **11.05** | **590.2** | **34.36** | **—** | **—** | **168.5** | **11.05** |
| Arkansas | — | — | — | — | — | — | 302.0 | 17.90 | — | — | — | — |
| Louisiana | — | — | — | 104 | 168.5 | 11.05 | 1,117.5 | 64.98 | — | — | 168.5 | 11.05 |
| Oklahoma | — | — | — | — | — | — | — | — | — | — | — | — |
| Texas | — | — | — | — | — | — | 231.9 | 13.44 | — | — | — | — |
| **Mountain** | **—** | **—** | **—** | **—** | **—** | **—** | **370.4** | **21.51** | **—** | **—** | **—** | **—** |
| Arizona | — | — | — | — | — | — | 353.3 | 20.61 | — | — | — | — |
| Colorado | — | — | — | — | — | — | — | — | — | — | — | — |
| Idaho | — | — | — | — | — | — | — | — | — | — | — | — |
| Montana | — | — | — | — | — | — | 349.9 | 20.72 | — | — | — | — |
| Nevada | — | — | — | — | — | — | 302.2 | 17.66 | — | — | — | — |
| New Mexico | — | — | — | — | — | — | 341.0 | 19.48 | — | — | — | — |
| Utah | — | — | — | — | — | — | 558.0 | 32.34 | — | — | — | — |
| Wyoming | — | — | — | — | — | — | 457.1 | 26.88 | — | — | — | — |
| **Pacific Contiguous** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** |
| California | — | — | — | — | — | — | — | — | — | — | — | — |
| Oregon | — | — | — | — | — | — | — | — | — | — | — | — |
| Washington | — | — | — | — | — | — | — | — | — | — | — | — |
| **Pacific Noncontiguous** | **564** | **222.2** | **13.99** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **222.2** | **13.99** |
| Alaska | — | — | — | — | — | — | — | — | — | — | — | — |
| Hawaii | 564 | 222.2 | 13.99 | — | — | — | — | — | — | — | 222.2 | 13.99 |
| **U. S. Total** | **3,078** | **161.7** | **10.35** | **6,934** | **168.2** | **10.75** | **314.9** | **18.35** | **221.7** | **13.17** | **166.2** | **10.63** |

1 *Monetary values are expressed in nominal terms.*

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Data for 1999 are preliminary. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report on Cost and Quality of Fuels for Electric Plants."

## Table 40. Receipts and Average Cost of Heavy Oil Delivered to Electric Utilities by Sulfur Content, Census Division, and State, February 1999

| Census Division and State | 0.3% or Less | | | More than 0.3% up to 0.5% | | | More than 0.5% up to 1.0% | | |
|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | |
| | (1,000 bbls) | (Cents/ $10^6$ Btu) | ($/ bbl) | (1,000 bbls) | (Cents/ $10^6$ Btu) | ($/ bbl) | (1,000 bbls) | (Cents/ $10^6$ Btu) | ($/ bbl) |
| **New England** | — | — | — | 468 | 165.6 | 10.43 | 1,254 | 166.8 | 10.67 |
| Connecticut | — | — | — | 361 | 157.5 | 9.92 | 1,234 | 166.1 | 10.64 |
| Maine | — | — | — | 107 | 193.1 | 12.15 | — | — | — |
| Massachusetts | — | — | — | — | — | — | 20 | 206.3 | 13.02 |
| New Hampshire | — | — | — | — | — | — | — | — | — |
| Rhode Island | — | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — | — | — | — |
| **Middle Atlantic** | 198 | 167.5 | 10.49 | 178 | 192.3 | 12.13 | 1,394 | 168.5 | 10.76 |
| New Jersey | — | — | — | — | — | — | 1 | 178.4 | 11.34 |
| New York | 198 | 167.5 | 10.49 | 80 | 169.1 | 10.48 | 736 | 126.4 | 8.05 |
| Pennsylvania | — | — | — | 98 | 210.7 | 13.49 | 657 | 215.3 | 13.79 |
| **East North Central** | — | — | — | 22 | 242.4 | 14.59 | 92 | 267.7 | 16.73 |
| Illinois | — | — | — | — | — | — | — | — | — |
| Indiana | — | — | — | — | — | — | — | — | — |
| Michigan | — | — | — | 22 | 242.4 | 14.59 | 92 | 267.7 | 16.73 |
| Ohio | — | — | — | — | — | — | — | — | — |
| Wisconsin | — | — | — | — | — | — | — | — | — |
| **West North Central** | — | — | — | — | — | — | — | — | — |
| Iowa | — | — | — | — | — | — | — | — | — |
| Kansas | — | — | — | — | — | — | — | — | — |
| Minnesota | — | — | — | — | — | — | — | — | — |
| Missouri | — | — | — | — | — | — | — | — | — |
| Nebraska | — | — | — | — | — | — | — | — | — |
| North Dakota | — | — | — | — | — | — | — | — | — |
| South Dakota | — | — | — | — | — | — | — | — | — |
| **South Atlantic** | 3 | 149.8 | 8.99 | 9 | 145.5 | 8.74 | 1,154 | 185.6 | 11.74 |
| Delaware | — | — | — | — | — | — | — | — | — |
| District of Columbia | — | — | — | — | — | — | — | — | — |
| Florida | 3 | 149.8 | 8.99 | 9 | 145.5 | 8.74 | 1,001 | 191.6 | 12.10 |
| Georgia | — | — | — | — | — | — | — | — | — |
| Maryland | — | — | — | — | — | — | 153 | 146.7 | 9.36 |
| North Carolina | — | — | — | — | — | — | — | — | — |
| South Carolina | — | — | — | — | — | — | — | — | — |
| Virginia | — | — | — | — | — | — | — | — | — |
| West Virginia | — | — | — | — | — | — | — | — | — |
| **East South Central** | — | — | — | 473 | 143.3 | 9.48 | — | — | — |
| Alabama | — | — | — | — | — | — | — | — | — |
| Kentucky | — | — | — | — | — | — | — | — | — |
| Mississippi | — | — | — | 473 | 143.3 | 9.48 | — | — | — |
| Tennessee | — | — | — | — | — | — | — | — | — |
| **West South Central** | — | — | — | — | — | — | 5 | 174.7 | 11.34 |
| Arkansas | — | — | — | — | — | — | — | — | — |
| Louisiana | — | — | — | — | — | — | 5 | 174.7 | 11.34 |
| Oklahoma | — | — | — | — | — | — | — | — | — |
| Texas | — | — | — | — | — | — | — | — | — |
| **Mountain** | — | — | — | — | — | — | — | — | — |
| Arizona | — | — | — | — | — | — | — | — | — |
| Colorado | — | — | — | — | — | — | — | — | — |
| Idaho | — | — | — | — | — | — | — | — | — |
| Montana | — | — | — | — | — | — | — | — | — |
| Nevada | — | — | — | — | — | — | — | — | — |
| New Mexico | — | — | — | — | — | — | — | — | — |
| Utah | — | — | — | — | — | — | — | — | — |
| Wyoming | — | — | — | — | — | — | — | — | — |
| **Pacific Contiguous** | — | — | — | — | — | — | — | — | — |
| California | — | — | — | — | — | — | — | — | — |
| Oregon | — | — | — | — | — | — | — | — | — |
| Washington | — | — | — | — | — | — | — | — | — |
| **Pacific Noncontiguous** | — | — | — | 564 | 222.2 | 13.99 | — | — | — |
| Alaska | — | — | — | — | — | — | — | — | — |
| Hawaii | — | — | — | 564 | 222.2 | 13.99 | — | — | — |
| **U. S. Total** | 201 | 167.2 | 10.47 | 1,714 | 181.2 | 11.56 | 3,898 | 175.2 | 11.16 |

[1] Monetary values are expressed in nominal terms.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Fuel Oil No. 2 has been omitted from this table. •Oil and petroleum are used interchangeably in this report.•Data for 1999 are preliminary. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report on Cost and Quality of Fuels for Electric Plants."

## Table 40. Receipts and Average Cost of Heavy Oil Delivered to Electric Utilities by Sulfur Content, Census Division, and State, February 1999 (Continued)

| Census Division and State | More than 1.0% up to 2.0% | | | More than 2.0% up to 3.0% | | | More than 3.0% | | | All Purchases | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | | | |
| | (1,000 bbls) | (Cents/ $10^6$ Btu) | ($/ bbl) | (1,000 bbls) | (Cents/ $10^6$ Btu) | ($/ bbl) | (1,000 bbls) | (Cents/ $10^6$ Btu) | ($/ bbl) | (Cents/ $10^6$ Btu) | ($/ bbl) |
| **New England** | **353** | **130.7** | **8.43** | — | — | — | — | — | — | **160.3** | **10.24** |
| Connecticut | — | — | — | — | — | — | — | — | — | 164.2 | 10.47 |
| Maine | 135 | 140.5 | 9.00 | — | — | — | — | — | — | 163.5 | 10.39 |
| Massachusetts | — | — | — | — | — | — | — | — | — | 206.3 | 13.02 |
| New Hampshire | 217 | 124.6 | 8.07 | — | — | — | — | — | — | 124.6 | 8.07 |
| Rhode Island | — | — | — | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — | — | — | — | — | — |
| **Middle Atlantic** | **268** | **138.6** | **8.61** | — | — | — | — | — | — | **166.6** | **10.57** |
| New Jersey | — | — | — | — | — | — | — | — | — | 178.4 | 11.34 |
| New York | 268 | 138.6 | 8.61 | — | — | — | — | — | — | 137.9 | 8.70 |
| Pennsylvania | — | — | — | — | — | — | — | — | — | 214.7 | 13.75 |
| **East North Central** | **11** | **181.0** | **11.78** | — | — | — | — | — | — | **255.4** | **15.92** |
| Illinois | — | — | — | — | — | — | — | — | — | — | — |
| Indiana | — | — | — | — | — | — | — | — | — | — | — |
| Michigan | 11 | 181.0 | 11.78 | — | — | — | — | — | — | 255.4 | 15.92 |
| Ohio | — | — | — | — | — | — | — | — | — | — | — |
| Wisconsin | — | — | — | — | — | — | — | — | — | — | — |
| **West North Central** | **8** | **88.3** | **6.10** | — | — | — | — | — | — | **88.3** | **6.10** |
| Iowa | — | — | — | — | — | — | — | — | — | — | — |
| Kansas | 8 | 88.3 | 6.10 | — | — | — | — | — | — | 88.3 | 6.10 |
| Minnesota | — | — | — | — | — | — | — | — | — | — | — |
| Missouri | — | — | — | — | — | — | — | — | — | — | — |
| Nebraska | — | — | — | — | — | — | — | — | — | — | — |
| North Dakota | — | — | — | — | — | — | — | — | — | — | — |
| South Dakota | — | — | — | — | — | — | — | — | — | — | — |
| **South Atlantic** | **1,805** | **163.5** | **10.50** | **1,256** | **144.5** | **9.24** | — | — | — | **163.8** | **10.46** |
| Delaware | — | — | — | — | — | — | — | — | — | — | — |
| District of Columbia | — | — | — | — | — | — | — | — | — | — | — |
| Florida | 1,761 | 164.1 | 10.54 | 1,256 | 144.5 | 9.24 | — | — | — | 164.7 | 10.52 |
| Georgia | — | — | — | — | — | — | — | — | — | — | — |
| Maryland | 44 | 140.2 | 9.03 | — | — | — | — | — | — | 145.3 | 9.28 |
| North Carolina | — | — | — | — | — | — | — | — | — | — | — |
| South Carolina | — | — | — | — | — | — | — | — | — | — | — |
| Virginia | — | — | — | — | — | — | — | — | — | — | — |
| West Virginia | — | — | — | — | — | — | — | — | — | — | — |
| **East South Central** | — | — | — | **401** | **145.2** | **9.62** | — | — | — | **144.2** | **9.55** |
| Alabama | — | — | — | — | — | — | — | — | — | — | — |
| Kentucky | — | — | — | — | — | — | — | — | — | — | — |
| Mississippi | — | — | — | 401 | 145.2 | 9.62 | — | — | — | 144.2 | 9.55 |
| Tennessee | — | — | — | — | — | — | — | — | — | — | — |
| **West South Central** | **100** | **168.2** | **11.04** | — | — | — | — | — | — | **168.5** | **11.05** |
| Arkansas | — | — | — | — | — | — | — | — | — | — | — |
| Louisiana | 100 | 168.2 | 11.04 | — | — | — | — | — | — | 168.5 | 11.05 |
| Oklahoma | — | — | — | — | — | — | — | — | — | — | — |
| Texas | — | — | — | — | — | — | — | — | — | — | — |
| **Mountain** | — | — | — | — | — | — | — | — | — | — | — |
| Arizona | — | — | — | — | — | — | — | — | — | — | — |
| Colorado | — | — | — | — | — | — | — | — | — | — | — |
| Idaho | — | — | — | — | — | — | — | — | — | — | — |
| Montana | — | — | — | — | — | — | — | — | — | — | — |
| Nevada | — | — | — | — | — | — | — | — | — | — | — |
| New Mexico | — | — | — | — | — | — | — | — | — | — | — |
| Utah | — | — | — | — | — | — | — | — | — | — | — |
| Wyoming | — | — | — | — | — | — | — | — | — | — | — |
| **Pacific Contiguous** | — | — | — | — | — | — | — | — | — | — | — |
| California | — | — | — | — | — | — | — | — | — | — | — |
| Oregon | — | — | — | — | — | — | — | — | — | — | — |
| Washington | — | — | — | — | — | — | — | — | — | — | — |
| **Pacific Noncontiguous** | — | — | — | — | — | — | — | — | — | **222.2** | **13.99** |
| Alaska | — | — | — | — | — | — | — | — | — | — | — |
| Hawaii | — | — | — | — | — | — | — | — | — | 222.2 | 13.99 |
| **U. S. Total** | **2,544** | **156.4** | **10.03** | **1,657** | **144.7** | **9.33** | — | — | — | **166.2** | **10.63** |

[1] Monetary values are expressed in nominal terms.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Fuel Oil No. 2 has been omitted from this table. •Oil and petroleum are used interchangeably in this report.•Data for 1999 are preliminary. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report on Cost and Quality of Fuels for Electric Plants."

## Table 41. Electric Utility Receipts of Gas by Type, Census Division, and State, February 1999

| Census Division and State | Natural | | Blast-Furnance[1] | | Refinery | | Total | |
|---|---|---|---|---|---|---|---|---|
| | (thousand Mcf) | (billion Btu) | (thousand Mcf) | (billion Btu) | (thousand Mcf) | (billion Btu) | (thousand Mcf) | (billion Btu) |
| **New England** | **49** | **50** | — | — | — | — | **49** | **50** |
| Connecticut | 1 | 1 | — | — | — | — | 1 | 1 |
| Maine | — | — | — | — | — | — | — | — |
| Massachusetts | 46 | 47 | — | — | — | — | 46 | 47 |
| New Hampshire | — | — | — | — | — | — | — | — |
| Rhode Island | — | — | — | — | — | — | — | — |
| Vermont | 2 | 2 | — | — | — | — | 2 | 2 |
| **Middle Atlantic** | **8,669** | **8,941** | — | — | — | — | **8,669** | **8,941** |
| New Jersey | 189 | 193 | — | — | — | — | 189 | 193 |
| New York | 8,396 | 8,660 | — | — | — | — | 8,396 | 8,660 |
| Pennsylvania | 85 | 88 | — | — | — | — | 85 | 88 |
| **East North Central** | **2,693** | **2,742** | **1,339** | **143** | — | — | **4,031** | **2,885** |
| Illinois | 854 | 874 | — | — | — | — | 854 | 874 |
| Indiana | 86 | 89 | — | — | — | — | 86 | 89 |
| Michigan | 1,486 | 1,510 | 1,339 | 143 | — | — | 2,825 | 1,653 |
| Ohio | 40 | 41 | — | — | — | — | 40 | 41 |
| Wisconsin | 226 | 229 | — | — | — | — | 226 | 229 |
| **West North Central** | **1,687** | **1,695** | — | — | — | — | **1,687** | **1,695** |
| Iowa | 219 | 219 | — | — | — | — | 219 | 219 |
| Kansas | 1,172 | 1,175 | — | — | — | — | 1,172 | 1,175 |
| Minnesota | 76 | 77 | — | — | — | — | 76 | 77 |
| Missouri | 181 | 184 | — | — | — | — | 181 | 184 |
| Nebraska | 40 | 40 | — | — | — | — | 40 | 40 |
| North Dakota | * | * | — | — | — | — | * | * |
| South Dakota | — | — | — | — | — | — | — | — |
| **South Atlantic** | **14,555** | **15,387** | — | — | **44** | **46** | **14,600** | **15,433** |
| Delaware | 832 | 860 | — | — | — | — | 832 | 860 |
| District of Columbia | — | — | — | — | — | — | — | — |
| Florida | 11,577 | 12,284 | — | — | — | — | 11,577 | 12,284 |
| Georgia | * | * | — | — | — | — | * | * |
| Maryland | 127 | 132 | — | — | — | — | 127 | 132 |
| North Carolina | 2 | 2 | — | — | — | — | 2 | 2 |
| South Carolina | 10 | 10 | — | — | — | — | 10 | 10 |
| Virginia | 1,969 | 2,061 | — | — | 44 | 46 | 2,013 | 2,107 |
| West Virginia | 38 | 38 | — | — | — | — | 38 | 38 |
| **East South Central** | **3,195** | **3,302** | — | — | — | — | **3,195** | **3,302** |
| Alabama | 91 | 94 | — | — | — | — | 91 | 94 |
| Kentucky | 60 | 61 | — | — | — | — | 60 | 61 |
| Mississippi | 3,043 | 3,147 | — | — | — | — | 3,043 | 3,147 |
| Tennessee | — | — | — | — | — | — | — | — |
| **West South Central** | **80,336** | **82,406** | — | — | — | — | **80,336** | **82,406** |
| Arkansas | 1,238 | 1,254 | — | — | — | — | 1,238 | 1,254 |
| Louisiana | 16,316 | 17,029 | — | — | — | — | 16,316 | 17,029 |
| Oklahoma | 7,930 | 8,206 | — | — | — | — | 7,930 | 8,206 |
| Texas | 54,852 | 55,916 | — | — | — | — | 54,852 | 55,916 |
| **Mountain** | **8,397** | **8,637** | — | — | — | — | **8,397** | **8,637** |
| Arizona | 1,747 | 1,778 | — | — | — | — | 1,747 | 1,778 |
| Colorado | 963 | 1,010 | — | — | — | — | 963 | 1,010 |
| Idaho | — | — | — | — | — | — | — | — |
| Montana | 4 | 4 | — | — | — | — | 4 | 4 |
| Nevada | 3,086 | 3,211 | — | — | — | — | 3,086 | 3,211 |
| New Mexico | 2,370 | 2,392 | — | — | — | — | 2,370 | 2,392 |
| Utah | 213 | 227 | — | — | — | — | 213 | 227 |
| Wyoming | 14 | 15 | — | — | — | — | 14 | 15 |
| **Pacific Contiguous** | **15,490** | **15,786** | — | — | — | — | **15,490** | **15,786** |
| California | 14,549 | 14,835 | — | — | — | — | 14,549 | 14,835 |
| Oregon | 941 | 951 | — | — | — | — | 941 | 951 |
| Washington | — | — | — | — | — | — | — | — |
| **Pacific Noncontiguous** | **1,849** | **1,850** | — | — | — | — | **1,849** | **1,850** |
| Alaska | 1,849 | 1,850 | — | — | — | — | 1,849 | 1,850 |
| Hawaii | — | — | — | — | — | — | — | — |
| **U.S. Total** | **136,920** | **140,796** | **1,339** | **143** | **44** | **46** | **138,303** | **140,984** |

[1] Includes coke oven gas.

* The absolute value of the number is less than 0.5.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Data for 1999 are preliminary. •Mcf=thousand cubic feet. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 42. Receipts and Average Cost of Gas Delivered to Electric Utilities by Census Division and State

| Census Division and State | February 1999 Receipts | | February 1998 Receipts | | Year to Date | | | |
|---|---|---|---|---|---|---|---|---|
| | (thousand Mcf) | (billion Btu) | (thousand Mcf) | (billion Btu) | Receipts (billion Btu) | | Average Cost (cents/million Btu)[1] | |
| | | | | | 1999 | 1998 | 1999 | 1998 |
| **New England** | **49** | **50** | **4,831** | **4,980** | **188** | **12,459** | **226.9** | **304.8** |
| Connecticut | 1 | 1 | 125 | 129 | 22 | 1,569 | 207.5 | 265.8 |
| Maine | — | — | — | — | — | — | — | — |
| Massachusetts | 46 | 47 | 3,059 | 3,156 | 159 | 6,436 | 228.5 | 298.6 |
| New Hampshire | — | — | — | — | — | — | — | — |
| Rhode Island | — | — | 1,600 | 1,648 | — | 4,340 | — | 328.5 |
| Vermont | 2 | 2 | 47 | 48 | 7 | 114 | 249.5 | 287.3 |
| **Middle Atlantic** | **8,669** | **8,941** | **10,722** | **11,022** | **17,854** | **28,488** | **260.1** | **289.2** |
| New Jersey | 189 | 193 | 225 | 232 | 690 | 430 | 280.6 | 280.4 |
| New York | 8,396 | 8,660 | 10,283 | 10,567 | 16,951 | 27,653 | 258.9 | 289.8 |
| Pennsylvania | 85 | 88 | 214 | 222 | 214 | 405 | 285.3 | 261.4 |
| **East North Central** | **4,031** | **2,885** | **5,226** | **4,069** | **8,156** | **9,356** | **225.0** | **229.1** |
| Illinois | 854 | 874 | 3,098 | 3,152 | 3,466 | 7,446 | 210.4 | 222.5 |
| Indiana | 86 | 89 | 76 | 78 | 356 | 170 | 286.0 | 320.3 |
| Michigan | 2,825 | 1,653 | 1,897 | 683 | 3,646 | 1,275 | 221.6 | 229.8 |
| Ohio | 40 | 41 | 53 | 54 | 130 | 144 | 361.8 | 328.9 |
| Wisconsin | 226 | 229 | 102 | 102 | 558 | 320 | 266.9 | 287.7 |
| **West North Central** | **1,687** | **1,695** | **682** | **671** | **3,303** | **1,678** | **235.1** | **292.5** |
| Iowa | 219 | 219 | 219 | 219 | 375 | 588 | 351.5 | 321.7 |
| Kansas | 1,172 | 1,175 | 353 | 342 | 2,132 | 904 | 205.3 | 274.2 |
| Minnesota | 76 | 77 | 17 | 17 | 274 | 41 | 312.5 | 257.9 |
| Missouri | 181 | 184 | 75 | 75 | 444 | 93 | 228.6 | 278.6 |
| Nebraska | 40 | 40 | 18 | 18 | 79 | 53 | 253.7 | 331.3 |
| North Dakota | * | * | — | — | * | — | 459.9 | — |
| South Dakota | — | — | — | — | — | — | — | — |
| **South Atlantic** | **14,600** | **15,433** | **14,724** | **15,381** | **33,852** | **34,570** | **277.2** | **300.2** |
| Delaware | 832 | 860 | 62 | 63 | 1,955 | 326 | 320.4 | 479.0 |
| District of Columbia | — | — | — | — | — | — | — | — |
| Florida | 11,577 | 12,284 | 14,010 | 14,644 | 27,395 | 32,543 | 269.4 | 297.2 |
| Georgia | * | * | 44 | 45 | * | 72 | 312.9 | 261.8 |
| Maryland | 127 | 132 | 136 | 141 | 466 | 230 | 336.0 | 336.2 |
| North Carolina | 2 | 2 | — | — | 32 | 2 | 318.0 | 292.9 |
| South Carolina | 10 | 10 | 4 | 4 | 16 | 6 | 283.5 | 362.7 |
| Virginia | 2,013 | 2,107 | 467 | 483 | 3,899 | 1,363 | 301.6 | 318.7 |
| West Virginia | 38 | 38 | — | — | 87 | 28 | 307.9 | 558.9 |
| **East South Central** | **3,195** | **3,302** | **650** | **677** | **7,228** | **1,553** | **196.8** | **251.7** |
| Alabama | 91 | 94 | 99 | 103 | 177 | 285 | 220.1 | 253.7 |
| Kentucky | 60 | 61 | 83 | 85 | 223 | 153 | 257.8 | 345.3 |
| Mississippi | 3,043 | 3,147 | 468 | 488 | 6,828 | 1,115 | 194.2 | 238.4 |
| Tennessee | — | — | — | — | — | — | — | — |
| **West South Central** | **80,336** | **82,406** | **60,965** | **62,207** | **182,004** | **141,173** | **207.0** | **253.6** |
| Arkansas | 1,238 | 1,254 | 235 | 256 | 1,525 | 560 | 193.6 | 200.8 |
| Louisiana | 16,316 | 17,029 | 8,865 | 9,153 | 38,174 | 22,328 | 201.6 | 247.1 |
| Oklahoma | 7,930 | 8,206 | 4,705 | 4,825 | 19,944 | 12,634 | 230.5 | 368.3 |
| Texas | 54,852 | 55,916 | 47,160 | 47,973 | 122,361 | 105,650 | 205.0 | 241.5 |
| **Mountain** | **8,397** | **8,637** | **5,948** | **6,088** | **18,884** | **12,809** | **216.7** | **239.9** |
| Arizona | 1,747 | 1,778 | 754 | 762 | 4,233 | 1,667 | 226.5 | 268.2 |
| Colorado | 963 | 1,010 | 146 | 146 | 1,446 | 386 | 245.7 | 288.8 |
| Idaho | — | — | — | — | — | — | — | — |
| Montana | 4 | 4 | 2 | 3 | 24 | 10 | 248.1 | 530.2 |
| Nevada | 3,086 | 3,211 | 3,384 | 3,482 | 7,796 | 7,075 | 219.8 | 232.3 |
| New Mexico | 2,370 | 2,392 | 1,656 | 1,690 | 4,949 | 3,657 | 193.8 | 234.3 |
| Utah | 213 | 227 | — | — | 412 | — | 207.9 | — |
| Wyoming | 14 | 15 | 6 | 6 | 24 | 14 | 537.5 | 653.2 |
| **Pacific Contiguous** | **15,490** | **15,786** | **19,191** | **19,721** | **33,717** | **48,756** | **252.9** | **271.8** |
| California | 14,549 | 14,835 | 18,088 | 18,606 | 31,271 | 46,121 | 257.6 | 281.1 |
| Oregon | 941 | 951 | 1,103 | 1,115 | 2,446 | 2,634 | 192.2 | 108.2 |
| Washington | — | — | 1 | 1 | — | 1 | — | 263.2 |
| **Pacific Noncontiguous** | **1,849** | **1,850** | **1,645** | **1,645** | **3,881** | **3,602** | **168.7** | **186.2** |
| Alaska | 1,849 | 1,850 | 1,645 | 1,645 | 3,881 | 3,602 | 168.7 | 186.2 |
| Hawaii | — | — | — | — | — | — | — | — |
| **U.S. Total** | **138,303** | **140,984** | **124,584** | **126,460** | **309,066** | **294,444** | **223.4** | **265.7** |

1 Monetary values are expressed in nominal terms.

* Less than 0.5.

Notes: •Data for 1999 are preliminary. Data for 1998 are final. •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Includes small quantities of coke-oven, refinery, and blast-furnace gas. •Mcf=thousand cubic feet. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table 43. Receipts and Average Cost of Gas Delivered to Electric Utilities by Type of Purchase, Census Division, and State, February 1999

| Census Division and State | Firm Gas | | | Interruptible Gas | | | Spot Gas | | | Total Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | | Receipts | Average Cost[1] | |
| | (1,000 Mcf) | (Cents/ $10^6$ Btu) | ($/ Mcf) | (1,000 Mcf) | (Cents/ $10^6$ Btu) | ($/ Mcf) | (1,000 Mcf) | (Cents/ $10^6$ Btu) | ($/ Mcf) | (1,000 Mcf) | (Cents/ $10^6$ Btu) | ($/ Mcf) |
| **New England** | — | — | — | **47** | **207.4** | **2.13** | **2** | **243.7** | **2.47** | **49** | **208.8** | **2.14** |
| Connecticut | — | — | — | 1 | 199.4 | 2.02 | — | — | — | 1 | 199.4 | 2.02 |
| Maine | — | — | — | — | — | — | — | — | — | — | — | — |
| Massachusetts | — | — | — | 46 | 207.5 | 2.13 | — | — | — | 46 | 207.5 | 2.13 |
| New Hampshire | — | — | — | — | — | — | — | — | — | — | — | — |
| Rhode Island | — | — | — | — | — | — | — | — | — | — | — | — |
| Vermont | — | — | — | — | — | — | 2 | 243.7 | 2.47 | 2 | 243.7 | 2.47 |
| **Middle Atlantic** | **816** | **457.2** | **4.65** | **5,965** | **224.0** | **2.31** | **1,888** | **235.0** | **2.44** | **8,669** | **248.1** | **2.56** |
| New Jersey | — | — | — | 179 | 238.4 | 2.44 | 9 | 831.8 | 8.69 | 189 | 268.8 | 2.76 |
| New York | 789 | 465.9 | 4.74 | 5,739 | 222.5 | 2.30 | 1,868 | 232.1 | 2.41 | 8,396 | 247.2 | 2.55 |
| Pennsylvania | 27 | 212.8 | 2.21 | 47 | 349.9 | 3.61 | 11 | 212.0 | 2.19 | 85 | 288.2 | 2.98 |
| **East North Central** | **141** | **264.4** | **2.68** | **3,063** | **232.3** | **1.44** | **828** | **180.9** | **1.85** | **4,031** | **218.8** | **1.57** |
| Illinois | 30 | 235.6 | 2.41 | 44 | 206.7 | 2.14 | 780 | 173.4 | 1.77 | 854 | 177.3 | 1.81 |
| Indiana | — | — | — | 86 | 270.0 | 2.78 | — | — | — | 86 | 270.0 | 2.78 |
| Michigan | 90 | 286.5 | 2.89 | 2,707 | 224.4 | 1.27 | 28 | 207.6 | 2.08 | 2,825 | 227.6 | 1.33 |
| Ohio | 20 | 211.2 | 2.17 | * | 422.1 | 4.22 | 20 | 441.1 | 4.51 | 40 | 323.7 | 3.32 |
| Wisconsin | — | — | — | 226 | 275.5 | 2.79 | — | — | — | 226 | 275.5 | 2.79 |
| **West North Central** | **40** | **295.2** | **2.94** | **1,323** | **203.1** | **2.04** | **324** | **316.5** | **3.17** | **1,687** | **227.0** | **2.28** |
| Iowa | 23 | 365.0 | 3.65 | 162 | 352.3 | 3.53 | 33 | 295.0 | 2.95 | 219 | 344.9 | 3.45 |
| Kansas | 9 | 198.0 | 1.94 | 1,009 | 176.9 | 1.78 | 154 | 318.8 | 3.19 | 1,172 | 195.6 | 1.96 |
| Minnesota | 3 | 254.1 | 2.61 | 10 | 252.7 | 2.59 | 63 | 367.5 | 3.67 | 76 | 347.2 | 3.49 |
| Missouri | — | — | — | 107 | 189.8 | 1.95 | 74 | 278.1 | 2.79 | 181 | 225.6 | 2.29 |
| Nebraska | 5 | 178.0 | 1.78 | 35 | 294.1 | 2.94 | — | — | — | 40 | 278.7 | 2.79 |
| North Dakota | — | — | — | * | 459.9 | 4.78 | — | — | — | * | 459.9 | 4.78 |
| South Dakota | — | — | — | — | — | — | — | — | — | — | — | — |
| **South Atlantic** | **11,704** | **275.1** | **2.91** | **769** | **225.9** | **2.39** | **2,127** | **292.1** | **3.06** | **14,600** | **275.0** | **2.91** |
| Delaware | 832 | 288.6 | 2.98 | — | — | — | — | — | — | 832 | 288.6 | 2.98 |
| District of Columbia | — | — | — | — | — | — | — | — | — | — | — | — |
| Florida | 10,872 | 274.1 | 2.91 | 592 | 198.3 | 2.11 | 114 | 179.0 | 1.90 | 11,577 | 269.3 | 2.86 |
| Georgia | — | — | — | * | 210.2 | 2.15 | — | — | — | * | 210.2 | 2.15 |
| Maryland | — | — | — | 127 | 332.0 | 3.46 | — | — | — | 127 | 332.0 | 3.46 |
| North Carolina | — | — | — | 2 | 318.0 | 3.33 | — | — | — | 2 | 318.0 | 3.33 |
| South Carolina | — | — | — | 10 | 278.6 | 2.86 | — | — | — | 10 | 278.6 | 2.86 |
| Virginia | — | — | — | — | — | — | 2,013 | 298.6 | 3.12 | 2,013 | 298.6 | 3.12 |
| West Virginia | — | — | — | 38 | 293.4 | 2.93 | — | — | — | 38 | 293.4 | 2.93 |
| **East South Central** | **314** | **191.6** | **1.98** | **371** | **181.3** | **1.87** | **2,510** | **192.6** | **1.99** | **3,195** | **191.2** | **1.98** |
| Alabama | — | — | — | 91 | 200.7 | 2.07 | — | — | — | 91 | 200.7 | 2.07 |
| Kentucky | — | — | — | — | — | — | 60 | 291.4 | 2.99 | 60 | 291.4 | 2.99 |
| Mississippi | 314 | 191.6 | 1.98 | 279 | 175.0 | 1.81 | 2,450 | 190.2 | 1.97 | 3,043 | 189.0 | 1.95 |
| Tennessee | — | — | — | — | — | — | — | — | — | — | — | — |
| **West South Central** | **39,909** | **221.0** | **2.26** | **5,323** | **192.1** | **1.97** | **35,104** | **193.2** | **1.99** | **80,336** | **206.9** | **2.12** |
| Arkansas | — | — | — | — | — | — | 1,238 | 191.8 | 1.94 | 1,238 | 191.8 | 1.94 |
| Louisiana | 6,082 | 208.1 | 2.17 | 2,350 | 190.2 | 2.00 | 7,884 | 196.2 | 2.04 | 16,316 | 199.7 | 2.08 |
| Oklahoma | 5,075 | 261.4 | 2.71 | 15 | 212.2 | 2.11 | 2,840 | 200.8 | 2.07 | 7,930 | 239.6 | 2.48 |
| Texas | 28,752 | 216.5 | 2.20 | 2,957 | 193.6 | 1.95 | 23,143 | 191.4 | 1.96 | 54,852 | 204.6 | 2.09 |
| **Mountain** | **2,828** | **213.3** | **2.19** | **3,608** | **227.3** | **2.33** | **1,961** | **196.2** | **2.03** | **8,397** | **215.3** | **2.21** |
| Arizona | 1,079 | 218.8 | 2.23 | 643 | 233.4 | 2.38 | 25 | 277.6 | 2.84 | 1,747 | 225.0 | 2.29 |
| Colorado | 880 | 220.6 | 2.33 | — | — | — | 83 | 138.0 | 1.36 | 963 | 213.9 | 2.24 |
| Idaho | — | — | — | — | — | — | — | — | — | — | — | — |
| Montana | 4 | 508.3 | 5.31 | * | 340.2 | 3.90 | — | — | — | 4 | 493.2 | 5.20 |
| Nevada | — | — | — | 1,446 | 268.7 | 2.81 | 1,640 | 196.6 | 2.03 | 3,086 | 230.6 | 2.40 |
| New Mexico | 851 | 192.7 | 1.95 | 1,519 | 183.7 | 1.85 | — | — | — | 2,370 | 186.9 | 1.89 |
| Utah | — | — | — | — | — | — | 213 | 205.6 | 2.19 | 213 | 205.6 | 2.19 |
| Wyoming | 14 | 462.2 | 4.83 | — | — | — | — | — | — | 14 | 462.2 | 4.83 |
| **Pacific Contiguous** | **156** | **278.6** | **2.84** | **3,875** | **246.9** | **2.51** | **11,460** | **244.9** | **2.50** | **15,490** | **245.7** | **2.50** |
| California | 110 | 331.1 | 3.39 | 3,875 | 246.9 | 2.51 | 10,565 | 250.1 | 2.55 | 14,549 | 249.9 | 2.55 |
| Oregon | 46 | 149.6 | 1.51 | — | — | — | 895 | 183.0 | 1.85 | 941 | 181.4 | 1.83 |
| Washington | — | — | — | — | — | — | — | — | — | — | — | — |
| **Pacific Noncontiguous** | **1,849** | **169.5** | **1.70** | — | — | — | — | — | — | **1,849** | **169.5** | **1.70** |
| Alaska | 1,849 | 169.5 | 1.70 | — | — | — | — | — | — | 1,849 | 169.5 | 1.70 |
| Hawaii | — | — | — | — | — | — | — | — | — | — | — | — |
| **U. S. Total** | **57,757** | **233.7** | **2.41** | **24,342** | **219.8** | **2.14** | **56,204** | **209.5** | **2.15** | **138,303** | **221.5** | **2.26** |

[1] Monetary values are expressed in nominal terms.

* = Less than 0.05.

Notes: •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Data for 1999 are preliminary. •Mcf=thousand cubic feet. •Due to restructuring of the electric power industry, electric utilities are selling plants to the nonutility sector. This will affect comparisons of current and historical data.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report on Cost and Quality of Fuels for Electric Plants."

# U.S. Electric Utility Sales, Revenue, and Average Revenue per Kilowatthour

**Table 44. U.S. Electric Utility Retail Sales of Electricity by Sector, 1989 Through March 1999**
(Million Kilowatthours)

| Period | Residential | Commercial | Industrial | Other[1] | All Sectors |
|---|---|---|---|---|---|
| **1989** | **905,525** | **725,861** | **925,659** | **89,765** | **2,646,809** |
| **1990** | **924,019** | **751,027** | **945,522** | **91,988** | **2,712,555** |
| **1991** | **955,417** | **765,664** | **946,583** | **94,339** | **2,762,003** |
| **1992** | **935,939** | **761,271** | **972,714** | **93,442** | **2,763,365** |
| **1993** | **994,781** | **794,573** | **977,164** | **94,944** | **2,861,462** |
| **1994** | **1,008,482** | **820,269** | **1,007,981** | **97,830** | **2,934,563** |
| **1995** | **1,042,501** | **862,685** | **1,012,693** | **95,407** | **3,013,287** |
| **1996** | **1,082,491** | **887,425** | **1,030,356** | **97,539** | **3,097,810** |
| **1997** | | | | | |
| January | 106,127 | 76,539 | 83,516 | 8,588 | 274,769 |
| February | 90,242 | 70,536 | 81,315 | 8,237 | 250,330 |
| March | 81,412 | 70,937 | 82,783 | 7,924 | 243,056 |
| April | 72,733 | 69,769 | 83,850 | 7,923 | 234,275 |
| May | 70,769 | 71,402 | 86,058 | 8,047 | 236,276 |
| June | 83,575 | 80,020 | 88,804 | 8,542 | 260,942 |
| July | 109,321 | 89,079 | 88,181 | 9,180 | 295,761 |
| August | 106,960 | 86,803 | 90,993 | 9,112 | 293,868 |
| September | 94,792 | 84,363 | 89,724 | 9,357 | 278,236 |
| October | 84,112 | 80,495 | 88,632 | 9,127 | 262,366 |
| November | 79,984 | 72,768 | 84,895 | 8,432 | 246,079 |
| December | 95,738 | 75,729 | 83,904 | 8,433 | 263,803 |
| **Total** | **1,075,767** | **928,440** | **1,032,653** | **102,901** | **3,139,761** |
| **1998** | | | | | |
| January | 101,982 | 74,608 | 82,546 | 8,245 | 267,381 |
| February | 86,072 | 69,690 | 82,670 | 7,497 | 245,929 |
| March | 85,485 | 72,227 | 84,516 | 7,864 | 250,092 |
| April | 73,741 | 70,450 | 84,320 | 7,593 | 236,104 |
| May | 77,047 | 75,653 | 89,359 | 8,024 | 250,083 |
| June | 98,128 | 84,146 | 89,934 | 8,474 | 280,682 |
| July | 120,837 | 91,183 | 88,810 | 8,583 | 309,413 |
| August | 119,647 | 92,564 | 93,292 | 9,043 | 314,545 |
| September | 106,067 | 88,140 | 89,541 | 9,400 | 293,147 |
| October | 86,319 | 79,803 | 87,977 | 8,462 | 262,561 |
| November | 76,555 | 74,183 | 87,225 | 8,520 | 246,483 |
| December | 92,123 | 76,258 | 87,157 | 8,163 | 263,702 |
| **Total** | **1,124,004** | **948,904** | **1,047,346** | **99,868** | **3,220,121** |
| **1999** | | | | | |
| January | 110,691 | 78,321 | 82,535 | 8,150 | 279,696 |
| February | 86,293 | 72,721 | 80,844 | 7,763 | 247,621 |
| March | 89,025 | 74,919 | 85,165 | 8,014 | 257,122 |
| **Year to Date** | | | | | |
| **1999** | **286,008** | **225,961** | **248,544** | **23,926** | **784,440** |
| **1998** | **273,539** | **216,525** | **249,732** | **23,606** | **763,402** |
| **1997** | **277,781** | **218,012** | **247,613** | **24,748** | **768,155** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Notes: •Values for 1999 are estimates based on a cutoff model sample; see Technical Notes for a discussion of the sample design for the Form EIA-826. Values for 1998 have been revised and are preliminary. Values for 1997 and prior years are final. •Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month. •Totals may not equal sum of components because of independent rounding.

Sources: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions," and Form EIA-861, "Annual Electric Utility Report."

## Table 45. Estimated U.S. Electric Utility Retail Sales of Electricity to Ultimate Consumers by Sector, Census Division, and State, March 1999 and 1998

(Million Kilowatthours)

| Census Division and State | Residential | | Commercial | | Industrial | | Other[1] | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 |
| **New England** | **3,555** | **3,306** | **3,716** | **3,530** | **2,091** | **2,041** | **128** | **130** | **9,489** | **9,006** |
| Connecticut | 1,042 | 965 | 975 | 969 | 494 | 494 | 32 | 46 | 2,542 | 2,474 |
| Maine | 322 | 304 | 271 | 261 | 364 | 371 | 5 | 5 | 963 | 940 |
| Massachusetts | 1,485 | 1,379 | 1,810 | 1,704 | 809 | 742 | 61 | 51 | 4,165 | 3,876 |
| New Hampshire | 307 | 304 | 278 | 266 | 189 | 196 | 12 | 12 | 786 | 778 |
| Rhode Island | 220 | 182 | 224 | 187 | 115 | 106 | 15 | 13 | 574 | 489 |
| Vermont | 179 | 172 | 156 | 142 | 120 | 131 | 3 | 3 | 459 | 449 |
| **Middle Atlantic** | **9,553** | **8,705** | **9,603** | **9,735** | **7,427** | **7,249** | **1,200** | **1,194** | **27,783** | **26,883** |
| New Jersey | 1,881 | 1,716 | 2,585 | 2,419 | 1,096 | 1,099 | 43 | 42 | 5,606 | 5,276 |
| New York | 3,655 | 3,280 | 3,843 | 4,342 | 2,250 | 2,161 | 1,056 | 1,048 | 10,804 | 10,830 |
| Pennsylvania | 4,017 | 3,709 | 3,174 | 2,974 | 4,080 | 3,990 | 101 | 104 | 11,373 | 10,778 |
| **East North Central** | **13,825** | **12,971** | **12,048** | **11,520** | **18,857** | **18,248** | **1,228** | **1,208** | **45,958** | **43,946** |
| Illinois | 3,282 | 2,845 | 3,205 | 2,988 | 3,484 | 3,488 | 716 | 684 | 10,687 | 10,006 |
| Indiana | 2,404 | 2,353 | 1,605 | 1,541 | 3,890 | 3,679 | 46 | 46 | 7,944 | 7,620 |
| Michigan | 2,487 | 2,450 | 2,767 | 2,700 | 2,992 | 3,005 | 74 | 71 | 8,319 | 8,226 |
| Ohio | 4,074 | 3,748 | 3,062 | 2,897 | 6,324 | 5,958 | 330 | 338 | 13,790 | 12,941 |
| Wisconsin | 1,579 | 1,575 | 1,410 | 1,393 | 2,167 | 2,117 | 63 | 68 | 5,218 | 5,153 |
| **West North Central** | **6,461** | **6,552** | **5,183** | **5,175** | **6,374** | **6,381** | **440** | **447** | **18,458** | **18,555** |
| Iowa | 899 | 937 | 636 | 620 | 1,295 | 1,296 | 120 | 113 | 2,951 | 2,966 |
| Kansas | 790 | 818 | 903 | 885 | 782 | 773 | 31 | 33 | 2,507 | 2,508 |
| Minnesota | 1,384 | 1,353 | 884 | 854 | 2,235 | 2,232 | 56 | 57 | 4,559 | 4,496 |
| Missouri | 2,189 | 2,188 | 1,837 | 1,896 | 1,203 | 1,255 | 78 | 78 | 5,307 | 5,417 |
| Nebraska | 618 | 653 | 521 | 514 | 563 | 544 | 89 | 99 | 1,791 | 1,810 |
| North Dakota | 303 | 313 | 216 | 215 | 152 | 149 | 40 | 37 | 711 | 715 |
| South Dakota | 277 | 290 | 186 | 190 | 144 | 132 | 26 | 30 | 633 | 642 |
| **South Atlantic** | **21,348** | **20,128** | **16,887** | **16,137** | **13,381** | **13,708** | **1,769** | **1,662** | **53,385** | **51,636** |
| Delaware | 316 | 278 | 279 | 227 | 307 | 296 | 4 | 4 | 906 | 807 |
| District of Columbia | 135 | 127 | 650 | 638 | 22 | 23 | 31 | 30 | 838 | 819 |
| Florida | 6,003 | 6,237 | 4,928 | 4,748 | 1,426 | 1,389 | 455 | 458 | 12,812 | 12,831 |
| Georgia | 2,884 | 2,755 | 2,565 | 2,360 | 2,864 | 2,841 | 106 | 104 | 8,419 | 8,059 |
| Maryland | 2,080 | 1,962 | 1,999 | 1,950 | 844 | 877 | 70 | 70 | 4,992 | 4,859 |
| North Carolina | 3,903 | 3,370 | 2,598 | 2,439 | 2,815 | 2,984 | 160 | 165 | 9,477 | 8,958 |
| South Carolina | 1,884 | 1,714 | 1,206 | 1,151 | 2,524 | 2,600 | 64 | 68 | 5,678 | 5,533 |
| Virginia | 3,217 | 3,047 | 2,111 | 2,033 | 1,659 | 1,646 | 871 | 752 | 7,857 | 7,478 |
| West Virginia | 927 | 638 | 550 | 592 | 920 | 1,052 | 8 | 10 | 2,405 | 2,292 |
| **East South Central** | **7,816** | **7,427** | **3,623** | **3,509** | **11,468** | **10,436** | **450** | **417** | **23,357** | **21,788** |
| Alabama | 1,946 | 1,874 | 1,119 | 1,113 | 3,039 | 2,518 | 50 | 46 | 6,155 | 5,552 |
| Kentucky | 1,900 | 1,751 | 923 | 875 | 3,810 | 3,475 | 244 | 243 | 6,877 | 6,345 |
| Mississippi | 1,029 | 1,056 | 668 | 630 | 1,291 | 1,301 | 57 | 51 | 3,045 | 3,038 |
| Tennessee | 2,941 | 2,745 | 912 | 891 | 3,328 | 3,141 | 98 | 77 | 7,279 | 6,853 |
| **West South Central** | **9,736** | **10,189** | **8,268** | **7,815** | **12,209** | **12,190** | **1,414** | **1,410** | **31,628** | **31,604** |
| Arkansas | 977 | 1,027 | 579 | 554 | 1,281 | 1,129 | 48 | 47 | 2,885 | 2,757 |
| Louisiana | 1,545 | 1,549 | 1,259 | 1,168 | 2,376 | 2,366 | 215 | 212 | 5,396 | 5,295 |
| Oklahoma | 1,230 | 1,281 | 919 | 890 | 1,011 | 1,065 | 204 | 222 | 3,365 | 3,457 |
| Texas | 5,984 | 6,333 | 5,511 | 5,203 | 7,542 | 7,629 | 946 | 929 | 19,983 | 20,094 |
| **Mountain** | **5,020** | **5,221** | **5,171** | **4,975** | **5,062** | **5,446** | **656** | **560** | **15,909** | **16,202** |
| Arizona | 1,373 | 1,500 | 1,507 | 1,331 | 926 | 1,069 | 236 | 168 | 4,041 | 4,069 |
| Colorado | 1,074 | 1,114 | 1,323 | 1,325 | 755 | 735 | 86 | 70 | 3,238 | 3,245 |
| Idaho | 641 | 617 | 397 | 387 | 701 | 675 | 23 | 22 | 1,762 | 1,701 |
| Montana | 337 | 335 | 273 | 278 | 228 | 495 | 20 | 22 | 857 | 1,130 |
| Nevada | 525 | 543 | 445 | 425 | 878 | 795 | 75 | 57 | 1,923 | 1,820 |
| New Mexico | 379 | 384 | 448 | 435 | 487 | 496 | 117 | 117 | 1,431 | 1,433 |
| Utah | 488 | 525 | 557 | 593 | 531 | 557 | 61 | 65 | 1,638 | 1,739 |
| Wyoming | 204 | 203 | 220 | 201 | 557 | 624 | 38 | 37 | 1,019 | 1,065 |
| **Pacific Contiguous** | **11,315** | **10,605** | **9,983** | **9,403** | **7,917** | **8,429** | **710** | **819** | **29,924** | **29,256** |
| California | 6,012 | 5,834 | 6,814 | 6,462 | 4,596 | 4,711 | 351 | 461 | 17,773 | 17,467 |
| Oregon | 1,816 | 1,638 | 1,214 | 1,108 | 1,193 | 1,250 | 56 | 55 | 4,279 | 4,051 |
| Washington | 3,487 | 3,133 | 1,955 | 1,833 | 2,128 | 2,468 | 303 | 304 | 7,872 | 7,737 |
| **Pacific Noncontiguous** | **394** | **379** | **438** | **430** | **380** | **389** | **18** | **19** | **1,231** | **1,216** |
| Alaska | 175 | 156 | 205 | 194 | 72 | 71 | 13 | 14 | 465 | 435 |
| Hawaii | 220 | 223 | 233 | 236 | 308 | 318 | 5 | 5 | 766 | 782 |
| **U.S. Total** | **89,025** | **85,485** | **74,919** | **72,227** | **85,165** | **84,516** | **8,014** | **7,864** | **257,122** | **250,092** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Notes: •Values for 1999 are estimates based on a cutoff model sample; see Technical Notes for a discussion of the sample design for the Form EIA-826. Values for 1998 have been revised and are preliminary. •Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions."

## Table 46. Estimated Coefficients of Variation for U.S. Electric Utility Retail Sales of Electricity to Ultimate Consumers by Sector, Census Division and State, March 1999

(Percent)

| Census Division and State | Residential | Commercial | Industrial | Other[1] | All Sectors |
|---|---|---|---|---|---|
| **New England** | **0.5** | **0.7** | **0.8** | **5.1** | **0.4** |
| Connecticut | .4 | .4 | .1 | .1 | .4 |
| Maine | .7 | 4.1 | 1.7 | 13.3 | .8 |
| Massachusetts | 1.1 | 1.1 | 1.8 | 10.6 | 1.0 |
| New Hampshire | .5 | .6 | .6 | 3.5 | .3 |
| Rhode Island | .1 | .1 | .4 | .5 | .1 |
| Vermont | .8 | 2.9 | 6.5 | 5.2 | .2 |
| **Middle Atlantic** | **2.7** | **.7** | **.9** | **.8** | **1.4** |
| New Jersey | .3 | .4 | .6 | .2 | .3 |
| New York | 5.6 | 1.3 | .7 | .8 | 3.2 |
| Pennsylvania | 4.0 | 1.5 | 1.6 | 5.3 | 1.8 |
| **East North Central** | **.4** | **.7** | **1.6** | **1.3** | **.5** |
| Illinois | .3 | .3 | 1.0 | .0 | .4 |
| Indiana | 2.0 | 1.9 | 3.7 | 2.8 | 2.4 |
| Michigan | .2 | 2.9 | 8.4 | 5.3 | 1.2 |
| Ohio | .8 | .3 | 1.6 | 4.5 | .9 |
| Wisconsin | 1.3 | .6 | 1.1 | 1.3 | .8 |
| **West North Central** | **.8** | **1.1** | **1.2** | **3.5** | **.5** |
| Iowa | 2.2 | 3.4 | 1.3 | 2.8 | 1.1 |
| Kansas | 1.0 | 1.6 | 1.2 | .9 | .6 |
| Minnesota | 2.5 | 4.9 | 2.3 | 2.3 | .9 |
| Missouri | 1.5 | 1.1 | 4.3 | .6 | 1.4 |
| Nebraska | 1.7 | .5 | 2.4 | 15.9 | 1.1 |
| North Dakota | 2.2 | 5.2 | 4.0 | 9.9 | 1.5 |
| South Dakota | 2.7 | 2.4 | 4.0 | 7.3 | 1.3 |
| **South Atlantic** | **.7** | **.3** | **.7** | **.7** | **.3** |
| Delaware | .5 | .7 | 1.1 | .8 | .1 |
| District of Columbia | .0 | .0 | .0 | .0 | .0 |
| Florida | .9 | .5 | 1.4 | 1.2 | .5 |
| Georgia | 1.3 | .4 | 1.5 | 2.1 | .9 |
| Maryland | 1.3 | 1.3 | .6 | 2.3 | .7 |
| North Carolina | 2.2 | .4 | 1.6 | 6.8 | .1 |
| South Carolina | 2.1 | 1.3 | 2.6 | 2.7 | 1.7 |
| Virginia | 2.3 | .1 | 1.0 | .3 | 1.1 |
| West Virginia | 1.5 | .3 | .3 | .8 | .8 |
| **East South Central** | **2.1** | **1.5** | **1.0** | **4.4** | **.8** |
| Alabama | 3.5 | 3.7 | 2.7 | 2.7 | .3 |
| Kentucky | 4.4 | 1.5 | 1.7 | .9 | 1.7 |
| Mississippi | 1.6 | 2.0 | 1.6 | 1.8 | .9 |
| Tennessee | 4.0 | 3.1 | 1.5 | 19.9 | 1.8 |
| **West South Central** | **1.8** | **.5** | **1.3** | **1.1** | **.8** |
| Arkansas | 2.0 | 1.0 | 5.3 | 3.8 | 2.8 |
| Louisiana | 1.9 | 2.5 | 4.2 | 3.7 | 4.0 |
| Oklahoma | 2.0 | 1.4 | 1.7 | 6.0 | .3 |
| Texas | 2.8 | .5 | 1.4 | .7 | .6 |
| **Mountain** | **.7** | **.7** | **1.5** | **4.2** | **.7** |
| Arizona | .7 | .4 | 2.8 | 4.9 | .2 |
| Colorado | 1.8 | 1.7 | 2.0 | 21.8 | 2.4 |
| Idaho | .5 | 3.3 | 2.0 | 15.5 | .5 |
| Montana | .8 | 6.3 | 29.0 | 2.9 | 7.6 |
| Nevada | 3.5 | .4 | 1.2 | 2.4 | 1.4 |
| New Mexico | 3.4 | .5 | 3.5 | 2.5 | 2.8 |
| Utah | 1.0 | 2.5 | .0 | 3.0 | .6 |
| Wyoming | 4.2 | 3.5 | 1.3 | 40.1 | 2.6 |
| **Pacific Contiguous** | **1.4** | **.7** | **3.9** | **12.3** | **2.2** |
| California | 2.4 | .9 | 1.4 | 24.7 | .7 |
| Oregon | .7 | 1.5 | 4.4 | 10.1 | 2.2 |
| Washington | 1.8 | 1.2 | 13.9 | 2.0 | 8.1 |
| **Pacific Noncontiguous** | **.7** | **.7** | **2.8** | **7.2** | **1.1** |
| Alaska | .9 | 1.3 | 14.4 | 9.9 | 2.8 |
| Hawaii | 1.0 | .6 | .6 | .2 | .8 |
| **U.S. Average** | **.5** | **.2** | **.6** | **1.2** | **.3** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Notes: •See technical notes for CV methodology. •It should be noted that such things as large changes in retail sales, reclassification of retail sales, or changes in billing procedures can contribute to unusually high coefficient of variations.

Sources: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions."

## Table 47. Estimated U.S. Electric Utility Retail Sales of Electricity to Ultimate Consumers by Sector, Census Division, and State, Year-to-Date 1999 and 1998

(Million Kilowatthours)

| Census Division and State | Residential | | Commercial | | Industrial | | Other[1] | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 |
| **New England** | **11,273** | **10,436** | **11,183** | **10,618** | **6,164** | **6,113** | **376** | **380** | **28,995** | **27,547** |
| Connecticut | 3,232 | 2,942 | 2,826 | 2,804 | 1,392 | 1,388 | 98 | 106 | 7,548 | 7,240 |
| Maine | 1,036 | 972 | 847 | 808 | 1,093 | 1,106 | 14 | 15 | 2,990 | 2,901 |
| Massachusetts | 4,743 | 4,471 | 5,495 | 5,217 | 2,395 | 2,358 | 174 | 167 | 12,806 | 12,214 |
| New Hampshire | 989 | 937 | 847 | 810 | 571 | 569 | 37 | 37 | 2,444 | 2,354 |
| Rhode Island | 708 | 559 | 693 | 554 | 345 | 295 | 44 | 45 | 1,790 | 1,453 |
| Vermont | 566 | 554 | 474 | 425 | 368 | 397 | 10 | 10 | 1,418 | 1,386 |
| **Middle Atlantic** | **29,720** | **27,256** | **29,156** | **29,229** | **20,630** | **21,059** | **3,806** | **3,795** | **83,312** | **81,340** |
| New Jersey | 5,822 | 5,514 | 7,619 | 7,257 | 3,195 | 3,256 | 147 | 135 | 16,784 | 16,161 |
| New York | 11,188 | 10,275 | 12,010 | 13,169 | 6,296 | 6,228 | 3,327 | 3,331 | 32,820 | 33,002 |
| Pennsylvania | 12,709 | 11,467 | 9,527 | 8,804 | 11,139 | 11,575 | 333 | 330 | 33,708 | 32,176 |
| **East North Central** | **43,520** | **40,507** | **35,688** | **34,178** | **54,080** | **52,624** | **3,697** | **3,739** | **136,985** | **131,048** |
| Illinois | 9,929 | 9,380 | 9,648 | 9,303 | 10,499 | 10,278 | 2,163 | 2,202 | 32,239 | 31,164 |
| Indiana | 7,744 | 7,198 | 4,673 | 4,519 | 10,824 | 10,654 | 145 | 147 | 23,386 | 22,519 |
| Michigan | 7,800 | 7,426 | 8,109 | 7,735 | 8,373 | 8,417 | 220 | 231 | 24,501 | 23,810 |
| Ohio | 13,033 | 11,616 | 9,118 | 8,698 | 18,035 | 17,107 | 976 | 962 | 41,161 | 38,383 |
| Wisconsin | 5,015 | 4,887 | 4,141 | 3,921 | 6,349 | 6,167 | 194 | 196 | 15,699 | 15,172 |
| **West North Central** | **20,925** | **20,292** | **15,663** | **15,247** | **18,551** | **18,861** | **1,331** | **1,361** | **56,470** | **55,761** |
| Iowa | 2,902 | 2,820 | 1,913 | 1,806 | 3,757 | 3,714 | 330 | 324 | 8,901 | 8,664 |
| Kansas | 2,504 | 2,446 | 2,687 | 2,590 | 2,287 | 2,288 | 100 | 100 | 7,578 | 7,424 |
| Minnesota | 4,590 | 4,311 | 2,698 | 2,595 | 6,377 | 6,519 | 178 | 179 | 13,842 | 13,604 |
| Missouri | 6,873 | 6,720 | 5,514 | 5,466 | 3,619 | 3,879 | 244 | 244 | 16,251 | 16,309 |
| Nebraska | 2,050 | 2,042 | 1,576 | 1,538 | 1,615 | 1,614 | 283 | 303 | 5,523 | 5,497 |
| North Dakota | 1,072 | 1,037 | 695 | 678 | 467 | 439 | 115 | 114 | 2,349 | 2,267 |
| South Dakota | 935 | 916 | 580 | 574 | 430 | 408 | 82 | 97 | 2,026 | 1,995 |
| **South Atlantic** | **67,094** | **65,151** | **50,845** | **48,494** | **38,074** | **38,892** | **5,051** | **4,861** | **161,065** | **157,397** |
| Delaware | 976 | 891 | 818 | 755 | 885 | 887 | 13 | 13 | 2,693 | 2,546 |
| District of Columbia | 411 | 387 | 1,879 | 1,820 | 61 | 68 | 90 | 91 | 2,441 | 2,366 |
| Florida | 19,524 | 19,827 | 15,363 | 14,442 | 4,084 | 4,035 | 1,333 | 1,281 | 40,303 | 39,585 |
| Georgia | 8,932 | 8,875 | 7,471 | 7,120 | 8,048 | 8,106 | 321 | 309 | 24,773 | 24,410 |
| Maryland | 6,498 | 6,000 | 5,979 | 5,697 | 2,478 | 2,517 | 191 | 209 | 15,146 | 14,423 |
| North Carolina | 11,795 | 11,401 | 7,742 | 7,477 | 7,900 | 8,302 | 495 | 483 | 27,932 | 27,664 |
| South Carolina | 5,986 | 5,924 | 3,685 | 3,586 | 7,229 | 7,399 | 197 | 209 | 17,097 | 17,119 |
| Virginia | 10,105 | 9,421 | 6,298 | 6,011 | 4,645 | 4,712 | 2,386 | 2,239 | 23,434 | 22,383 |
| West Virginia | 2,867 | 2,424 | 1,611 | 1,585 | 2,743 | 2,863 | 25 | 26 | 7,246 | 6,899 |
| **East South Central** | **25,153** | **24,432** | **10,932** | **10,270** | **33,025** | **32,088** | **1,344** | **1,277** | **70,453** | **68,067** |
| Alabama | 6,159 | 6,128 | 3,294 | 3,046 | 8,623 | 8,602 | 146 | 148 | 18,222 | 17,924 |
| Kentucky | 6,137 | 5,561 | 2,807 | 2,594 | 10,679 | 10,177 | 765 | 729 | 20,388 | 19,061 |
| Mississippi | 3,395 | 3,461 | 2,036 | 1,862 | 3,821 | 3,822 | 165 | 154 | 9,416 | 9,298 |
| Tennessee | 9,462 | 9,282 | 2,795 | 2,769 | 9,902 | 9,487 | 268 | 246 | 22,427 | 21,783 |
| **West South Central** | **34,238** | **33,384** | **25,573** | **24,111** | **37,262** | **37,536** | **4,252** | **4,137** | **101,326** | **99,168** |
| Arkansas | 3,359 | 3,276 | 1,797 | 1,706 | 3,689 | 3,573 | 141 | 142 | 8,986 | 8,696 |
| Louisiana | 5,212 | 5,009 | 3,862 | 3,572 | 7,502 | 7,480 | 627 | 610 | 17,203 | 16,670 |
| Oklahoma | 4,084 | 4,052 | 2,721 | 2,630 | 3,087 | 3,087 | 603 | 588 | 10,494 | 10,356 |
| Texas | 21,584 | 21,047 | 17,193 | 16,203 | 22,983 | 23,396 | 2,881 | 2,798 | 64,642 | 63,445 |
| **Mountain** | **16,562** | **16,578** | **15,321** | **14,507** | **15,380** | **16,425** | **1,844** | **1,737** | **49,107** | **49,248** |
| Arizona | 4,725 | 4,938 | 4,315 | 3,967 | 2,756 | 3,129 | 615 | 552 | 12,411 | 12,586 |
| Colorado | 3,611 | 3,502 | 4,110 | 3,805 | 2,313 | 2,393 | 255 | 231 | 10,289 | 9,930 |
| Idaho | 2,057 | 1,945 | 1,193 | 1,128 | 1,983 | 1,995 | 71 | 73 | 5,304 | 5,141 |
| Montana | 1,064 | 1,086 | 847 | 823 | 848 | 1,437 | 60 | 61 | 2,818 | 3,407 |
| Nevada | 1,732 | 1,719 | 1,291 | 1,213 | 2,483 | 2,333 | 214 | 199 | 5,719 | 5,464 |
| New Mexico | 1,201 | 1,230 | 1,282 | 1,289 | 1,440 | 1,493 | 331 | 317 | 4,255 | 4,330 |
| Utah | 1,509 | 1,497 | 1,610 | 1,613 | 1,853 | 1,907 | 185 | 191 | 5,156 | 5,208 |
| Wyoming | 664 | 660 | 673 | 670 | 1,704 | 1,739 | 113 | 113 | 3,154 | 3,181 |
| **Pacific Contiguous** | **36,285** | **34,332** | **30,302** | **28,621** | **24,268** | **25,022** | **2,164** | **2,261** | **93,019** | **90,237** |
| California | 19,459 | 18,684 | 20,571 | 19,415 | 13,881 | 13,984 | 1,020 | 1,118 | 54,931 | 53,201 |
| Oregon | 5,801 | 5,357 | 3,605 | 3,439 | 3,549 | 3,660 | 176 | 181 | 13,131 | 12,638 |
| Washington | 11,025 | 10,292 | 6,126 | 5,768 | 6,838 | 7,378 | 967 | 961 | 24,956 | 24,399 |
| **Pacific Noncontiguous** | **1,238** | **1,171** | **1,298** | **1,249** | **1,111** | **1,112** | **61** | **58** | **3,708** | **3,590** |
| Alaska | 577 | 520 | 635 | 597 | 222 | 210 | 47 | 44 | 1,481 | 1,370 |
| Hawaii | 661 | 651 | 663 | 653 | 890 | 901 | 14 | 14 | 2,227 | 2,219 |
| **U.S. Total** | **286,008** | **273,539** | **225,961** | **216,525** | **248,544** | **249,732** | **23,926** | **23,606** | **784,440** | **763,402** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Notes: •Values for 1999 are estimates based on a cutoff model sample; see Technical Notes for a discussion of the sample design for the Form EIA-826. Values for 1998 have been revised and are preliminary. •Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions."

## Table 48. Revenue from U.S. Electric Utility Retail Sales of Electricity to Ultimate Consumers by Sector, 1989 Through March 1999

(Million Dollars)

| Period | Residential | Commercial | Industrial | Other[1] | All Sectors |
|---|---|---|---|---|---|
| **1989** | **69,240** | **52,228** | **43,719** | **5,609** | **170,797** |
| **1990** | **72,378** | **55,117** | **44,857** | **5,891** | **178,243** |
| **1991** | **76,828** | **57,655** | **45,737** | **6,138** | **186,359** |
| **1992** | **76,848** | **58,343** | **46,993** | **6,296** | **188,480** |
| **1993** | **82,814** | **61,521** | **47,357** | **6,528** | **198,220** |
| **1994** | **84,552** | **63,396** | **48,069** | **6,689** | **202,706** |
| **1995** | **87,610** | **66,365** | **47,175** | **6,567** | **207,717** |
| **1996** | **90,501** | **67,827** | **47,385** | **6,741** | **212,455** |
| **1997** | | | | | |
| January | 8,350 | 5,561 | 3,682 | 584 | 18,176 |
| February | 7,201 | 5,208 | 3,584 | 554 | 16,547 |
| March | 6,709 | 5,281 | 3,650 | 556 | 16,195 |
| April | 6,094 | 5,161 | 3,629 | 544 | 15,429 |
| May | 6,123 | 5,412 | 3,780 | 563 | 15,878 |
| June | 7,449 | 6,309 | 4,096 | 611 | 18,466 |
| July | 9,556 | 7,005 | 4,251 | 626 | 21,438 |
| August | 9,409 | 6,864 | 4,334 | 645 | 21,251 |
| September | 8,292 | 6,627 | 4,243 | 657 | 19,819 |
| October | 7,223 | 6,165 | 4,085 | 631 | 18,104 |
| November | 6,597 | 5,408 | 3,777 | 572 | 16,355 |
| December | 7,689 | 5,481 | 3,661 | 567 | 17,399 |
| **Total** | **90,694** | **70,482** | **46,772** | **7,110** | **215,059** |
| **1998** | | | | | |
| January | 8,042 | 5,399 | 3,622 | 539 | 17,601 |
| February | 6,876 | 5,090 | 3,580 | 510 | 16,056 |
| March | 6,858 | 5,270 | 3,681 | 542 | 16,351 |
| April | 6,070 | 5,159 | 3,646 | 521 | 15,396 |
| May | 6,551 | 5,651 | 3,962 | 550 | 16,714 |
| June | 8,371 | 6,414 | 4,199 | 593 | 19,577 |
| July | 10,393 | 7,029 | 4,332 | 602 | 22,356 |
| August | 10,271 | 7,119 | 4,482 | 621 | 22,493 |
| September | 8,961 | 6,671 | 4,157 | 632 | 20,421 |
| October | 7,134 | 5,955 | 3,912 | 586 | 17,587 |
| November | 6,169 | 5,287 | 3,791 | 534 | 15,781 |
| December | 7,310 | 5,435 | 3,764 | 560 | 17,069 |
| **Total** | **93,005** | **70,478** | **47,129** | **6,790** | **217,401** |
| **1999** | | | | | |
| January | 8,406 | 5,434 | 3,528 | 543 | 17,910 |
| February | 6,849 | 5,184 | 3,497 | 513 | 16,042 |
| March | 7,031 | 5,314 | 3,571 | 538 | 16,454 |
| **Year to Date** | | | | | |
| ***1999*** | **22,286** | **15,931** | **10,596** | **1,594** | **50,406** |
| **1998** | **21,776** | **15,758** | **10,883** | **1,590** | **50,007** |
| **1997** | **22,260** | **16,049** | **10,916** | **1,694** | **50,918** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Notes: •Values for 1999 are estimates based on a cutoff model sample; see Technical Notes for a discussion of the sample design for the Form EIA-826. Values for 1998 have been revised and are preliminary. Values for 1997 and prior years are final. •Values for 1996 in the commercial and industrial sectors for Maryland, the South Atlantic Census Division, and the U.S. Total reflect an electric utility's reclassification for this information by Standard Industrial Classification Code (SIC). •Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month. •Totals may not equal sum of components because of independent rounding.

Sources: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions," and Form EIA-861, "Annual Electric Utility Report."

## Table 49. Estimated Revenue from U.S. Electric Utility Retail Sales of Electricity to Ultimate Consumers by Sector, Census Division, and State, March 1999 and 1998
(Million Dollars)

| Census Division and State | Residential | | Commercial | | Industrial | | Other[1] | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 |
| **New England** | **397** | **382** | **351** | **346** | **157** | **162** | **16** | **19** | **922** | **910** |
| Connecticut | 116 | 115 | 93 | 101 | 36 | 38 | 4 | 7 | 249 | 261 |
| Maine | 42 | 40 | 33 | 32 | 28 | 29 | 1 | 1 | 105 | 101 |
| Massachusetts | 143 | 144 | 149 | 148 | 56 | 59 | 7 | 6 | 355 | 357 |
| New Hampshire | 43 | 42 | 32 | 31 | 18 | 18 | 2 | 2 | 94 | 93 |
| Rhode Island | 30 | 23 | 26 | 20 | 10 | 9 | 2 | 2 | 69 | 54 |
| Vermont | 23 | 19 | 18 | 15 | 9 | 10 | * | * | 50 | 44 |
| **Middle Atlantic** | **1,052** | **984** | **923** | **955** | **344** | **410** | **110** | **111** | **2,429** | **2,460** |
| New Jersey | 214 | 187 | 260 | 233 | 88 | 82 | 7 | 7 | 570 | 510 |
| New York | 496 | 453 | 468 | 484 | 89 | 103 | 91 | 91 | 1,143 | 1,131 |
| Pennsylvania | 341 | 344 | 195 | 237 | 168 | 225 | 11 | 13 | 716 | 819 |
| **East North Central** | **1,088** | **1,084** | **856** | **848** | **808** | **805** | **83** | **83** | **2,835** | **2,820** |
| Illinois | 267 | 285 | 228 | 228 | 165 | 172 | 45 | 45 | 706 | 730 |
| Indiana | 167 | 166 | 97 | 96 | 150 | 150 | 4 | 4 | 418 | 415 |
| Michigan | 214 | 209 | 220 | 216 | 149 | 150 | 8 | 8 | 590 | 582 |
| Ohio | 327 | 312 | 231 | 228 | 257 | 253 | 21 | 21 | 836 | 814 |
| Wisconsin | 114 | 113 | 81 | 81 | 85 | 81 | 5 | 5 | 285 | 279 |
| **West North Central** | **436** | **440** | **291** | **296** | **250** | **260** | **28** | **27** | **1,004** | **1,023** |
| Iowa | 71 | 76 | 39 | 40 | 46 | 48 | 4 | 7 | 160 | 169 |
| Kansas | 57 | 58 | 54 | 56 | 34 | 35 | 2 | 3 | 147 | 151 |
| Minnesota | 98 | 96 | 52 | 51 | 94 | 96 | 4 | 4 | 249 | 248 |
| Missouri | 136 | 135 | 95 | 99 | 45 | 48 | 4 | 5 | 280 | 286 |
| Nebraska | 35 | 37 | 26 | 26 | 19 | 22 | 9 | 5 | 90 | 91 |
| North Dakota | 18 | 19 | 12 | 13 | 7 | 6 | 2 | 2 | 40 | 40 |
| South Dakota | 20 | 20 | 12 | 12 | 6 | 5 | 1 | 1 | 39 | 38 |
| **South Atlantic** | **1,604** | **1,536** | **1,058** | **1,029** | **531** | **552** | **111** | **105** | **3,303** | **3,222** |
| Delaware | 26 | 24 | 18 | 16 | 14 | 14 | 1 | 1 | 58 | 55 |
| District of Columbia | 10 | 9 | 43 | 40 | 1 | 1 | 2 | 2 | 56 | 51 |
| Florida | 487 | 499 | 329 | 309 | 70 | 68 | 31 | 31 | 917 | 907 |
| Georgia | 202 | 194 | 165 | 168 | 107 | 108 | 9 | 9 | 483 | 479 |
| Maryland | 156 | 149 | 119 | 117 | 33 | 34 | 6 | 6 | 314 | 306 |
| North Carolina | 302 | 267 | 160 | 158 | 120 | 132 | 11 | 12 | 593 | 569 |
| South Carolina | 140 | 130 | 77 | 74 | 87 | 91 | 4 | 4 | 308 | 299 |
| Virginia | 225 | 223 | 117 | 115 | 63 | 64 | 46 | 40 | 450 | 441 |
| West Virginia | 56 | 41 | 31 | 32 | 36 | 41 | 1 | 1 | 124 | 115 |
| **East South Central** | **476** | **468** | **219** | **220** | **402** | **387** | **28** | **25** | **1,125** | **1,100** |
| Alabama | 123 | 125 | 71 | 72 | 101 | 93 | 4 | 3 | 299 | 294 |
| Kentucky | 102 | 97 | 48 | 46 | 99 | 96 | 11 | 11 | 260 | 250 |
| Mississippi | 66 | 73 | 41 | 43 | 51 | 54 | 4 | 5 | 162 | 175 |
| Tennessee | 184 | 173 | 60 | 58 | 151 | 144 | 8 | 6 | 404 | 381 |
| **West South Central** | **678** | **708** | **536** | **515** | **482** | **480** | **87** | **87** | **1,783** | **1,790** |
| Arkansas | 67 | 71 | 31 | 31 | 45 | 43 | 3 | 3 | 146 | 148 |
| Louisiana | 103 | 106 | 80 | 78 | 92 | 97 | 13 | 13 | 288 | 294 |
| Oklahoma | 78 | 78 | 46 | 44 | 33 | 38 | 8 | 9 | 166 | 169 |
| Texas | 430 | 453 | 380 | 363 | 311 | 302 | 63 | 62 | 1,184 | 1,179 |
| **Mountain** | **363** | **376** | **317** | **318** | **211** | **215** | **34** | **30** | **925** | **939** |
| Arizona | 111 | 118 | 102 | 95 | 51 | 50 | 11 | 8 | 275 | 272 |
| Colorado | 79 | 83 | 74 | 81 | 33 | 35 | 7 | 7 | 193 | 206 |
| Idaho | 34 | 31 | 18 | 17 | 18 | 16 | 1 | 1 | 71 | 65 |
| Montana | 23 | 22 | 17 | 17 | 13 | 17 | 2 | 2 | 55 | 58 |
| Nevada | 39 | 40 | 30 | 28 | 38 | 33 | 3 | 2 | 111 | 103 |
| New Mexico | 33 | 34 | 35 | 35 | 22 | 22 | 6 | 7 | 97 | 97 |
| Utah | 30 | 36 | 29 | 34 | 17 | 20 | 2 | 3 | 78 | 93 |
| Wyoming | 13 | 12 | 12 | 11 | 19 | 21 | 1 | 1 | 45 | 46 |
| **Pacific Contiguous** | **887** | **830** | **715** | **695** | **353** | **373** | **39** | **51** | **1,996** | **1,949** |
| California | 617 | 573 | 557 | 546 | 250 | 265 | 25 | 37 | 1,449 | 1,422 |
| Oregon | 104 | 97 | 60 | 57 | 41 | 39 | 3 | 3 | 208 | 196 |
| Washington | 166 | 159 | 98 | 92 | 63 | 68 | 12 | 11 | 338 | 331 |
| **Pacific Noncontiguous** | **49** | **50** | **47** | **48** | **34** | **37** | **3** | **3** | **132** | **137** |
| Alaska | 19 | 18 | 19 | 18 | 6 | 5 | 2 | 2 | 46 | 43 |
| Hawaii | 30 | 32 | 28 | 30 | 28 | 32 | 1 | 1 | 86 | 94 |
| **U.S. Total** | **7,031** | **6,858** | **5,314** | **5,270** | **3,571** | **3,681** | **538** | **542** | **16,454** | **16,351** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.
* Less than 0.5.

Notes: •Values for 1999 are estimates based on a cutoff model sample; see Technical Notes for a discussion of the sample design for the Form EIA-826. Values for 1998 have been revised and are preliminary. •Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions."

## Table 50. Estimated Coefficients of Variation for Revenue from U.S. Electric Utility Retail Sales of Electricity to Ultimate Consumers by Sector, Census Division, and State, March 1999
(Percent)

| Census Division and State | Residential | Commercial | Industrial | Other[1] | All Sectors |
|---|---|---|---|---|---|
| **New England** | **0.8** | **0.4** | **1.0** | **2.0** | **0.4** |
| Connecticut | .3 | .6 | .3 | .2 | .5 |
| Maine | .6 | 2.9 | 3.4 | 6.0 | .4 |
| Massachusetts | 2.0 | .2 | .9 | 4.3 | 1.0 |
| New Hampshire | .7 | 1.1 | .5 | 8.1 | .7 |
| Rhode Island | .9 | .7 | 1.1 | 1.9 | .9 |
| Vermont | 1.2 | 4.3 | 11.9 | 6.0 | 2.1 |
| **Middle Atlantic** | **4.0** | **4.5** | **5.2** | **1.1** | **3.3** |
| New Jersey | .3 | .6 | .5 | .2 | .4 |
| New York | 6.9 | 8.8 | 3.8 | 1.3 | 5.8 |
| Pennsylvania | 7.2 | 2.5 | 10.4 | 2.3 | 6.1 |
| **East North Central** | **.7** | **.9** | **1.9** | **1.4** | **.6** |
| Illinois | .5 | .5 | 1.4 | .3 | .7 |
| Indiana | 4.3 | 2.8 | 3.6 | 3.4 | 3.4 |
| Michigan | .2 | 3.3 | 9.1 | 3.3 | .7 |
| Ohio | .8 | .6 | 1.5 | 5.2 | .7 |
| Wisconsin | .5 | .8 | 1.3 | 2.5 | .6 |
| **West North Central** | **1.1** | **1.1** | **1.7** | **8.1** | **.9** |
| Iowa | 3.5 | 1.3 | 4.1 | 5.8 | 1.5 |
| Kansas | 1.0 | .2 | 2.3 | 10.8 | .3 |
| Minnesota | 2.7 | 4.0 | 2.1 | 2.8 | .4 |
| Missouri | 2.4 | 2.4 | 6.7 | 8.3 | 2.9 |
| Nebraska | 1.6 | 1.3 | 2.2 | 23.8 | 1.8 |
| North Dakota | 1.6 | 4.3 | 3.4 | 7.5 | 1.5 |
| South Dakota | 2.8 | 1.8 | 2.5 | 9.3 | 1.3 |
| **South Atlantic** | **.8** | **.8** | **.9** | **1.0** | **.5** |
| Delaware | .5 | .7 | 1.0 | .8 | .6 |
| District of Columbia | .0 | .0 | .0 | .0 | .0 |
| Florida | .8 | 2.1 | 2.8 | .4 | .8 |
| Georgia | 4.7 | 1.7 | .4 | 3.2 | 2.2 |
| Maryland | 1.7 | 2.6 | 1.2 | 1.7 | 1.4 |
| North Carolina | 1.0 | .7 | 2.1 | 9.7 | .5 |
| South Carolina | .9 | 1.8 | 3.6 | 1.6 | 2.5 |
| Virginia | 2.4 | 1.4 | 3.0 | .1 | 1.8 |
| West Virginia | 1.3 | .3 | .3 | 1.5 | .8 |
| **East South Central** | **2.7** | **2.1** | **1.1** | **4.4** | **1.6** |
| Alabama | 6.5 | 4.9 | 2.7 | 1.8 | 4.1 |
| Kentucky | 4.7 | 2.0 | 2.0 | .5 | 1.9 |
| Mississippi | 6.5 | 4.7 | 3.7 | 5.8 | 4.8 |
| Tennessee | 4.0 | 3.5 | 1.6 | 14.2 | 2.2 |
| **West South Central** | **1.8** | **1.0** | **1.9** | **1.6** | **.8** |
| Arkansas | 3.6 | 3.7 | 7.0 | 3.4 | 4.4 |
| Louisiana | 2.6 | 2.6 | 3.9 | 6.8 | 3.4 |
| Oklahoma | 4.3 | 1.3 | 3.1 | 7.4 | 1.2 |
| Texas | 2.6 | 1.3 | 2.5 | 1.4 | .7 |
| **Mountain** | **.9** | **.8** | **1.4** | **2.7** | **.9** |
| Arizona | 1.5 | .7 | 4.3 | 4.7 | 1.7 |
| Colorado | 2.8 | 3.0 | 2.3 | 5.4 | 3.3 |
| Idaho | 1.6 | 2.4 | 4.5 | 10.7 | 1.5 |
| Montana | 2.5 | 3.6 | 8.7 | 4.6 | .5 |
| Nevada | 2.7 | .7 | 2.1 | 1.7 | 1.8 |
| New Mexico | 3.2 | .4 | 3.7 | 9.3 | 2.2 |
| Utah | 1.0 | 1.2 | .8 | 1.5 | .7 |
| Wyoming | 4.7 | 3.3 | .7 | 19.5 | 2.3 |
| **Pacific Contiguous** | **1.7** | **1.7** | **3.9** | **12.9** | **1.5** |
| California | 2.0 | 2.1 | 4.2 | 20.4 | 1.3 |
| Oregon | 2.1 | 3.9 | 3.8 | 5.6 | 2.3 |
| Washington | 5.0 | 1.9 | 14.1 | 4.7 | 6.9 |
| **Pacific Noncontiguous** | **1.3** | **1.3** | **2.7** | **5.3** | **1.5** |
| Alaska | 1.0 | 2.3 | 12.8 | 6.7 | 2.3 |
| Hawaii | 2.0 | 1.6 | 1.9 | 1.1 | 1.9 |
| **U.S. Average** | **.7** | **.9** | **.8** | **1.2** | **.6** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

*Notes: •See technical notes for CV methodology. •It should be noted that such things as large changes in retail sales, reclassification of retail sales,* or changes in billing procedures can contribute to unusually high coefficient of variations.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions."

## Table 51. Estimated Revenue from U.S. Electric Utility Retail Sales to Ultimate Consumers by Sector, Census Division, and State, Year-to-Date 1999 and 1998
(Million Dollars)

| Census Division and State | Residential | | Commercial | | Industrial | | Other[1] | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 |
| **New England** | **1,256** | **1,208** | **1,059** | **1,059** | **469** | **498** | **49** | **51** | **2,833** | **2,816** |
| Connecticut | 364 | 349 | 272 | 282 | 101 | 107 | 13 | 15 | 750 | 753 |
| Maine | 136 | 126 | 103 | 97 | 84 | 86 | 4 | 4 | 327 | 314 |
| Massachusetts | 467 | 477 | 465 | 482 | 176 | 196 | 21 | 22 | 1,129 | 1,177 |
| New Hampshire | 137 | 121 | 97 | 91 | 53 | 52 | 5 | 5 | 290 | 269 |
| Rhode Island | 78 | 67 | 64 | 58 | 26 | 25 | 6 | 4 | 174 | 154 |
| Vermont | 74 | 68 | 57 | 48 | 30 | 32 | 1 | 1 | 162 | 150 |
| **Middle Atlantic** | **3,241** | **3,058** | **2,769** | **2,893** | **1,048** | **1,201** | **336** | **334** | **7,394** | **7,485** |
| New Jersey | 650 | 615 | 750 | 704 | 249 | 248 | 24 | 22 | 1,673 | 1,589 |
| New York | 1,510 | 1,422 | 1,375 | 1,490 | 282 | 312 | 279 | 273 | 3,446 | 3,497 |
| Pennsylvania | 1,081 | 1,022 | 643 | 698 | 516 | 641 | 33 | 39 | 2,274 | 2,399 |
| **East North Central** | **3,370** | **3,362** | **2,525** | **2,477** | **2,353** | **2,324** | **246** | **256** | **8,494** | **8,419** |
| Illinois | 778 | 932 | 670 | 700 | 497 | 509 | 134 | 143 | 2,078 | 2,283 |
| Indiana | 526 | 501 | 287 | 277 | 430 | 425 | 13 | 13 | 1,256 | 1,216 |
| Michigan | 675 | 640 | 640 | 614 | 422 | 421 | 23 | 24 | 1,760 | 1,699 |
| Ohio | 1,030 | 947 | 687 | 662 | 756 | 736 | 61 | 63 | 2,534 | 2,408 |
| Wisconsin | 361 | 343 | 241 | 224 | 248 | 233 | 14 | 13 | 864 | 813 |
| **West North Central** | **1,366** | **1,337** | **876** | **862** | **742** | **753** | **83** | **79** | **3,067** | **3,031** |
| Iowa | 220 | 226 | 116 | 115 | 135 | 141 | 20 | 19 | 491 | 502 |
| Kansas | 176 | 174 | 161 | 161 | 100 | 102 | 9 | 9 | 446 | 445 |
| Minnesota | 321 | 300 | 159 | 152 | 276 | 272 | 13 | 13 | 769 | 738 |
| Missouri | 407 | 402 | 283 | 281 | 137 | 144 | 14 | 14 | 841 | 841 |
| Nebraska | 113 | 113 | 79 | 78 | 55 | 58 | 19 | 15 | 266 | 264 |
| North Dakota | 64 | 60 | 40 | 39 | 20 | 19 | 5 | 5 | 129 | 123 |
| South Dakota | 65 | 62 | 37 | 36 | 19 | 17 | 4 | 4 | 125 | 118 |
| **South Atlantic** | **5,005** | **4,908** | **3,170** | **3,066** | **1,522** | **1,566** | **315** | **307** | **10,012** | **9,848** |
| Delaware | 81 | 76 | 54 | 51 | 40 | 42 | 2 | 2 | 177 | 171 |
| District of Columbia | 29 | 27 | 119 | 115 | 2 | 3 | 6 | 6 | 156 | 151 |
| Florida | 1,575 | 1,584 | 1,012 | 937 | 203 | 199 | 92 | 89 | 2,882 | 2,809 |
| Georgia | 607 | 614 | 481 | 498 | 295 | 300 | 27 | 27 | 1,410 | 1,438 |
| Maryland | 483 | 449 | 353 | 334 | 97 | 97 | 17 | 17 | 949 | 896 |
| North Carolina | 916 | 889 | 484 | 473 | 348 | 374 | 36 | 34 | 1,784 | 1,771 |
| South Carolina | 436 | 435 | 232 | 226 | 254 | 259 | 12 | 13 | 934 | 932 |
| Virginia | 704 | 684 | 346 | 345 | 178 | 185 | 122 | 117 | 1,350 | 1,332 |
| West Virginia | 174 | 149 | 89 | 87 | 105 | 109 | 2 | 2 | 371 | 347 |
| **East South Central** | **1,521** | **1,510** | **659** | **639** | **1,198** | **1,169** | **80** | **78** | **3,458** | **3,395** |
| Alabama | 393 | 392 | 209 | 198 | 296 | 295 | 11 | 11 | 908 | 895 |
| Kentucky | 326 | 306 | 144 | 134 | 300 | 285 | 34 | 33 | 804 | 759 |
| Mississippi | 212 | 233 | 125 | 129 | 150 | 158 | 13 | 14 | 499 | 534 |
| Tennessee | 591 | 578 | 182 | 178 | 452 | 431 | 23 | 20 | 1,247 | 1,208 |
| **West South Central** | **2,312** | **2,297** | **1,638** | **1,575** | **1,467** | **1,487** | **261** | **254** | **5,678** | **5,613** |
| Arkansas | 224 | 227 | 96 | 94 | 135 | 134 | 9 | 9 | 463 | 464 |
| Louisiana | 339 | 357 | 241 | 248 | 289 | 323 | 37 | 38 | 906 | 966 |
| Oklahoma | 240 | 235 | 132 | 126 | 104 | 104 | 25 | 23 | 501 | 487 |
| Texas | 1,509 | 1,478 | 1,169 | 1,107 | 941 | 927 | 190 | 183 | 3,809 | 3,695 |
| **Mountain** | **1,178** | **1,182** | **933** | **907** | **618** | **638** | **94** | **92** | **2,823** | **2,819** |
| Arizona | 364 | 381 | 289 | 285 | 142 | 146 | 27 | 26 | 821 | 838 |
| Colorado | 263 | 257 | 226 | 214 | 100 | 104 | 21 | 20 | 609 | 595 |
| Idaho | 108 | 97 | 53 | 48 | 53 | 49 | 4 | 4 | 218 | 198 |
| Montana | 73 | 72 | 54 | 52 | 37 | 53 | 5 | 5 | 169 | 182 |
| Nevada | 126 | 122 | 87 | 80 | 105 | 95 | 8 | 7 | 326 | 304 |
| New Mexico | 104 | 109 | 101 | 102 | 64 | 67 | 19 | 19 | 288 | 298 |
| Utah | 98 | 102 | 88 | 91 | 60 | 64 | 8 | 8 | 254 | 266 |
| Wyoming | 41 | 40 | 35 | 35 | 58 | 59 | 4 | 4 | 138 | 138 |
| **Pacific Contiguous** | **2,889** | **2,763** | **2,165** | **2,140** | **1,080** | **1,140** | **121** | **131** | **6,256** | **6,173** |
| California | 1,999 | 1,924 | 1,675 | 1,674 | 758 | 808 | 75 | 85 | 4,507 | 4,491 |
| Oregon | 330 | 310 | 179 | 174 | 120 | 118 | 9 | 9 | 638 | 611 |
| Washington | 560 | 528 | 312 | 293 | 202 | 213 | 37 | 37 | 1,112 | 1,071 |
| **Pacific Noncontiguous** | **149** | **153** | **137** | **141** | **97** | **107** | **8** | **8** | **392** | **409** |
| Alaska | 63 | 59 | 57 | 56 | 16 | 16 | 7 | 6 | 143 | 138 |
| Hawaii | 86 | 94 | 80 | 85 | 81 | 91 | 2 | 2 | 249 | 271 |
| **U.S. Total** | **22,286** | **21,776** | **15,931** | **15,758** | **10,596** | **10,883** | **1,594** | **1,590** | **50,406** | **50,007** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Notes: •Values for 1999 are estimates based on a cutoff model sample; see Technical Notes for a discussion of the sample design for the Form EIA-826. Values for 1998 have been revised and are preliminary. •Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions."

## Table 52. U.S. Electric Utility Average Revenue per Kilowatthour by Sector, 1989 Through March 1999

(Cents)

| Period | Residential | Commercial | Industrial | Other[1] | All Sectors |
|---|---|---|---|---|---|
| **1989** | **7.65** | **7.20** | **4.72** | **6.25** | **6.45** |
| **1990** | **7.83** | **7.34** | **4.74** | **6.40** | **6.57** |
| **1991** | **8.04** | **7.53** | **4.83** | **6.51** | **6.75** |
| **1992** | **8.21** | **7.66** | **4.83** | **6.74** | **6.82** |
| **1993** | **8.32** | **7.74** | **4.85** | **6.88** | **6.93** |
| **1994** | **8.38** | **7.73** | **4.77** | **6.84** | **6.91** |
| **1995** | **8.40** | **7.69** | **4.66** | **6.88** | **6.89** |
| **1996** | **8.36** | **7.64** | **4.60** | **6.91** | **6.86** |
| **1997** | | | | | |
| January | 7.87 | 7.27 | 4.41 | 6.79 | 6.62 |
| February | 7.98 | 7.38 | 4.41 | 6.73 | 6.61 |
| March | 8.24 | 7.44 | 4.41 | 7.01 | 6.66 |
| April | 8.38 | 7.40 | 4.33 | 6.87 | 6.59 |
| May | 8.65 | 7.58 | 4.39 | 7.00 | 6.72 |
| June | 8.91 | 7.88 | 4.61 | 7.16 | 7.08 |
| July | 8.74 | 7.86 | 4.82 | 6.82 | 7.25 |
| August | 8.80 | 7.91 | 4.76 | 7.07 | 7.23 |
| September | 8.75 | 7.86 | 4.73 | 7.02 | 7.12 |
| October | 8.59 | 7.66 | 4.61 | 6.91 | 6.90 |
| November | 8.25 | 7.43 | 4.45 | 6.79 | 6.65 |
| December | 8.03 | 7.24 | 4.36 | 6.73 | 6.60 |
| **Average** | **8.43** | **7.59** | **4.53** | **6.91** | **6.85** |
| **1998** | | | | | |
| January | 7.89 | 7.24 | 4.39 | 6.53 | 6.58 |
| February | 7.99 | 7.30 | 4.33 | 6.80 | 6.53 |
| March | 8.02 | 7.30 | 4.36 | 6.89 | 6.54 |
| April | 8.23 | 7.32 | 4.32 | 6.86 | 6.52 |
| May | 8.50 | 7.47 | 4.43 | 6.86 | 6.68 |
| June | 8.53 | 7.62 | 4.67 | 7.00 | 6.97 |
| July | 8.60 | 7.71 | 4.88 | 7.01 | 7.23 |
| August | 8.58 | 7.69 | 4.80 | 6.86 | 7.15 |
| September | 8.45 | 7.57 | 4.64 | 6.73 | 6.97 |
| October | 8.27 | 7.46 | 4.45 | 6.93 | 6.70 |
| November | 8.06 | 7.13 | 4.35 | 6.27 | 6.40 |
| December | 7.94 | 7.13 | 4.32 | 6.86 | 6.47 |
| **Average** | **8.27** | **7.43** | **4.50** | **6.80** | **6.75** |
| **1999** | | | | | |
| January | 7.59 | 6.94 | 4.27 | 6.66 | 6.40 |
| February | 7.94 | 7.13 | 4.33 | 6.60 | 6.48 |
| March | 7.90 | 7.09 | 4.19 | 6.72 | 6.40 |
| **Year-to-Date Average** | | | | | |
| **1999 Average** | **7.79** | **7.05** | **4.26** | **6.66** | **6.43** |
| **1998 Average** | **7.96** | **7.28** | **4.36** | **6.74** | **6.55** |
| **1997 Average** | **8.01** | **7.36** | **4.41** | **6.84** | **6.63** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Notes: •Values for 1999 are estimates based on a cutoff model sample; see Technical Notes for a discussion of the sample design for the Form EIA-826. Values for 1998 have been revised and are preliminary. Values for 1997 and prior years are final. •Values for 1996 in the commercial and industrial sectors for Maryland, the South Atlantic Census Division, and the U.S. Total reflect an electric utility's reclassification for this information by Standard Industrial Classification Code (SIC). •Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month. •Totals may not equal sum of components because of independent rounding.

Sources: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions," and Form EIA-861, "Annual Electric Utility Report."

## Table 53. Estimated U.S. Electric Utility Average Revenue per Kilowatthour to Ultimate Consumers by Sector, Census Division, and State, March 1999 and 1998
(Cents)

| Census Division and State | Residential | | Commercial | | Industrial | | Other[1] | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 |
| **New England** | **11.2** | **11.6** | **9.4** | **9.8** | **7.5** | **7.9** | **12.8** | **14.6** | **9.7** | **10.1** |
| Connecticut | 11.1 | 11.9 | 9.5 | 10.4 | 7.2 | 7.7 | 13.5 | 16.2 | 9.8 | 10.5 |
| Maine | 13.1 | 13.0 | 12.3 | 12.1 | 7.7 | 7.7 | 26.0 | 24.2 | 10.9 | 10.8 |
| Massachusetts | 9.6 | 10.5 | 8.2 | 8.7 | 7.0 | 7.9 | 10.6 | 12.4 | 8.5 | 9.2 |
| New Hampshire | 13.9 | 13.7 | 11.5 | 11.7 | 9.3 | 9.4 | 14.5 | 15.8 | 11.9 | 12.0 |
| Rhode Island | 13.8 | 12.5 | 11.6 | 10.8 | 8.9 | 8.4 | 14.6 | 12.4 | 12.0 | 11.0 |
| Vermont | 12.7 | 11.1 | 11.6 | 10.7 | 7.6 | 7.4 | 14.4 | 14.6 | 11.0 | 9.9 |
| **Middle Atlantic** | **11.0** | **11.3** | **9.6** | **9.8** | **4.6** | **5.7** | **9.1** | **9.3** | **8.7** | **9.1** |
| New Jersey | 11.4 | 10.9 | 10.1 | 9.6 | 8.0 | 7.5 | 17.3 | 17.0 | 10.2 | 9.7 |
| New York | 13.6 | 13.8 | 12.2 | 11.2 | 3.9 | 4.8 | 8.6 | 8.7 | 10.6 | 10.4 |
| Pennsylvania | 8.5 | 9.3 | 6.2 | 8.0 | 4.1 | 5.6 | 11.3 | 12.0 | 6.3 | 7.6 |
| **East North Central** | **7.9** | **8.4** | **7.1** | **7.4** | **4.3** | **4.4** | **6.8** | **6.9** | **6.2** | **6.4** |
| Illinois | 8.1 | 10.0 | 7.1 | 7.6 | 4.7 | 4.9 | 6.4 | 6.6 | 6.6 | 7.3 |
| Indiana | 6.9 | 7.0 | 6.0 | 6.2 | 3.9 | 4.1 | 9.5 | 9.1 | 5.3 | 5.5 |
| Michigan | 8.6 | 8.5 | 7.9 | 8.0 | 5.0 | 5.0 | 11.0 | 11.0 | 7.1 | 7.1 |
| Ohio | 8.0 | 8.3 | 7.5 | 7.9 | 4.1 | 4.2 | 6.3 | 6.3 | 6.1 | 6.3 |
| Wisconsin | 7.2 | 7.1 | 5.7 | 5.8 | 3.9 | 3.8 | 7.6 | 6.9 | 5.5 | 5.4 |
| **West North Central** | **6.7** | **6.7** | **5.6** | **5.7** | **3.9** | **4.1** | **6.3** | **6.0** | **5.4** | **5.5** |
| Iowa | 7.9 | 8.1 | 6.1 | 6.4 | 3.6 | 3.7 | 3.7 | 5.8 | 5.4 | 5.7 |
| Kansas | 7.3 | 7.1 | 5.9 | 6.3 | 4.3 | 4.5 | 7.7 | 9.2 | 5.9 | 6.0 |
| Minnesota | 7.1 | 7.1 | 5.9 | 6.0 | 4.2 | 4.3 | 7.8 | 7.8 | 5.5 | 5.5 |
| Missouri | 6.2 | 6.2 | 5.2 | 5.2 | 3.7 | 3.8 | 5.5 | 6.0 | 5.3 | 5.3 |
| Nebraska | 5.7 | 5.6 | 5.1 | 5.1 | 3.3 | 4.1 | 10.1 | 5.2 | 5.0 | 5.0 |
| North Dakota | 6.1 | 6.1 | 5.7 | 5.8 | 4.4 | 4.3 | 5.0 | 5.0 | 5.6 | 5.6 |
| South Dakota | 7.2 | 6.8 | 6.5 | 6.2 | 4.3 | 4.0 | 4.1 | 3.8 | 6.2 | 5.9 |
| **South Atlantic** | **7.5** | **7.6** | **6.3** | **6.4** | **4.0** | **4.0** | **6.3** | **6.3** | **6.2** | **6.2** |
| Delaware | 8.3 | 8.6 | 6.4 | 7.1 | 4.5 | 4.8 | 13.7 | 13.0 | 6.5 | 6.8 |
| District of Columbia | 7.2 | 6.8 | 6.7 | 6.3 | 4.4 | 3.9 | 6.8 | 6.6 | 6.7 | 6.3 |
| Florida | 8.1 | 8.0 | 6.7 | 6.5 | 4.9 | 4.9 | 6.8 | 6.8 | 7.2 | 7.1 |
| Georgia | 7.0 | 7.0 | 6.4 | 7.1 | 3.7 | 3.8 | 8.5 | 8.8 | 5.7 | 5.9 |
| Maryland | 7.5 | 7.6 | 6.0 | 6.0 | 3.9 | 3.8 | 8.2 | 8.1 | 6.3 | 6.3 |
| North Carolina | 7.7 | 7.9 | 6.2 | 6.5 | 4.3 | 4.4 | 7.0 | 7.1 | 6.3 | 6.4 |
| South Carolina | 7.4 | 7.6 | 6.4 | 6.4 | 3.4 | 3.5 | 6.3 | 6.3 | 5.4 | 5.4 |
| Virginia | 7.0 | 7.3 | 5.5 | 5.7 | 3.8 | 3.9 | 5.3 | 5.3 | 5.7 | 5.9 |
| West Virginia | 6.1 | 6.4 | 5.6 | 5.4 | 3.9 | 3.9 | 8.8 | 8.2 | 5.1 | 5.0 |
| **East South Central** | **6.1** | **6.3** | **6.1** | **6.3** | **3.5** | **3.7** | **6.2** | **6.1** | **4.8** | **5.0** |
| Alabama | 6.3 | 6.7 | 6.4 | 6.5 | 3.3 | 3.7 | 7.3 | 7.2 | 4.9 | 5.3 |
| Kentucky | 5.4 | 5.5 | 5.2 | 5.2 | 2.6 | 2.8 | 4.7 | 4.6 | 3.8 | 3.9 |
| Mississippi | 6.4 | 6.9 | 6.1 | 6.9 | 3.9 | 4.1 | 7.6 | 8.9 | 5.3 | 5.8 |
| Tennessee | 6.3 | 6.3 | 6.5 | 6.5 | 4.5 | 4.6 | 8.6 | 8.2 | 5.5 | 5.6 |
| **West South Central** | **7.0** | **6.9** | **6.5** | **6.6** | **3.9** | **3.9** | **6.2** | **6.1** | **5.6** | **5.7** |
| Arkansas | 6.8 | 6.9 | 5.3 | 5.6 | 3.5 | 3.8 | 6.2 | 6.2 | 5.0 | 5.4 |
| Louisiana | 6.7 | 6.9 | 6.3 | 6.7 | 3.9 | 4.1 | 5.9 | 6.1 | 5.3 | 5.6 |
| Oklahoma | 6.4 | 6.1 | 5.0 | 4.9 | 3.3 | 3.6 | 4.1 | 4.1 | 4.9 | 4.9 |
| Texas | 7.2 | 7.2 | 6.9 | 7.0 | 4.1 | 4.0 | 6.7 | 6.6 | 5.9 | 5.9 |
| **Mountain** | **7.2** | **7.2** | **6.1** | **6.4** | **4.2** | **3.9** | **5.1** | **5.4** | **5.8** | **5.8** |
| Arizona | 8.1 | 7.9 | 6.8 | 7.1 | 5.5 | 4.7 | 4.5 | 4.9 | 6.8 | 6.7 |
| Colorado | 7.4 | 7.4 | 5.6 | 6.1 | 4.4 | 4.8 | 8.1 | 9.3 | 6.0 | 6.3 |
| Idaho | 5.2 | 5.0 | 4.5 | 4.3 | 2.6 | 2.4 | 5.1 | 5.0 | 4.0 | 3.8 |
| Montana | 6.8 | 6.6 | 6.4 | 6.1 | 5.5 | 3.4 | 8.1 | 7.7 | 6.4 | 5.1 |
| Nevada | 7.5 | 7.3 | 6.8 | 6.6 | 4.3 | 4.2 | 3.9 | 3.9 | 5.8 | 5.7 |
| New Mexico | 8.8 | 8.9 | 7.9 | 7.9 | 4.6 | 4.5 | 5.5 | 5.6 | 6.8 | 6.8 |
| Utah | 6.1 | 6.9 | 5.2 | 5.7 | 3.2 | 3.7 | 4.1 | 4.3 | 4.8 | 5.3 |
| Wyoming | 6.3 | 6.1 | 5.4 | 5.6 | 3.5 | 3.4 | 3.5 | 3.5 | 4.5 | 4.3 |
| **Pacific Contiguous** | **7.8** | **7.8** | **7.2** | **7.4** | **4.5** | **4.4** | **5.5** | **6.3** | **6.7** | **6.7** |
| California | 10.3 | 9.8 | 8.2 | 8.4 | 5.4 | 5.6 | 7.1 | 8.1 | 8.2 | 8.1 |
| Oregon | 5.7 | 5.9 | 5.0 | 5.1 | 3.4 | 3.1 | 5.2 | 5.4 | 4.9 | 4.8 |
| Washington | 4.8 | 5.1 | 5.0 | 5.0 | 2.9 | 2.8 | 3.9 | 3.7 | 4.3 | 4.3 |
| **Pacific Noncontiguous** | **12.4** | **13.1** | **10.7** | **11.2** | **8.9** | **9.4** | **14.6** | **14.5** | **10.8** | **11.3** |
| Alaska | 11.1 | 11.5 | 9.2 | 9.4 | 7.9 | 7.2 | 15.8 | 15.2 | 9.9 | 10.0 |
| Hawaii | 13.5 | 14.2 | 12.0 | 12.7 | 9.1 | 9.9 | 11.6 | 12.5 | 11.3 | 12.0 |
| **U.S. Average** | **7.90** | **8.02** | **7.09** | **7.30** | **4.19** | **4.36** | **6.72** | **6.89** | **6.40** | **6.54** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Notes: •Values for 1999 are estimates based on a cutoff model sample; see Technical Notes for a discussion of the sample design for the Form EIA-826. Values for 1998 have been revised and are preliminary. Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions."

## Table 54. Estimated Coefficients of Variation for U.S. Electric Utility Average Revenue per Kilowatthour to Ultimate Consumers by Sector, Census Division, and State, March 1999

(Percent)

| Census Division and State | Residential | Commercial | Industrial | Other[1] | All Sectors |
|---|---|---|---|---|---|
| **New England** | **1.1** | **0.5** | **1.1** | **3.6** | **0.8** |
| Connecticut | .0 | .1 | .3 | .3 | .1 |
| Maine | .1 | 1.3 | 1.8 | 6.9 | .4 |
| Massachusetts | 3.0 | .9 | 2.5 | 6.7 | 1.8 |
| New Hampshire | 1.2 | 1.4 | .3 | 4.7 | .9 |
| Rhode Island | 1.1 | .6 | .6 | 2.3 | .8 |
| Vermont | 1.8 | 2.7 | 5.6 | 7.1 | 2.0 |
| **Middle Atlantic** | **1.4** | **4.4** | **4.5** | **.8** | **1.9** |
| New Jersey | .1 | .3 | .2 | .2 | .2 |
| New York | 1.5 | 8.5 | 4.2 | .5 | 2.8 |
| Pennsylvania | 3.3 | 2.3 | 9.1 | 7.5 | 4.3 |
| **East North Central** | **.4** | **.3** | **.8** | **.4** | **.4** |
| Illinois | .5 | .6 | .5 | .3 | .4 |
| Indiana | 2.3 | 1.4 | 1.7 | 1.9 | 1.8 |
| Michigan | .1 | .4 | 1.4 | 2.4 | .9 |
| Ohio | .8 | .6 | 1.4 | 1.0 | .8 |
| Wisconsin | 1.1 | .9 | 2.3 | 3.6 | 1.3 |
| **West North Central** | **.7** | **.6** | **.7** | **10.4** | **.5** |
| Iowa | 1.3 | 2.4 | 2.8 | 8.7 | .6 |
| Kansas | .3 | 1.6 | 1.3 | 11.1 | .8 |
| Minnesota | .7 | 1.2 | .3 | 1.0 | .9 |
| Missouri | 2.0 | 1.4 | 2.5 | 8.7 | 1.6 |
| Nebraska | .7 | 1.0 | 3.5 | 35.7 | 2.3 |
| North Dakota | .8 | 1.7 | 1.1 | 7.6 | .5 |
| South Dakota | 1.3 | 1.8 | 1.7 | 10.2 | 1.6 |
| **South Atlantic** | **.6** | **.6** | **.6** | **.5** | **.6** |
| Delaware | .2 | .1 | 2.1 | .6 | .6 |
| District of Columbia | .0 | .0 | .0 | .0 | .0 |
| Florida | .5 | 1.5 | 3.1 | .9 | 1.1 |
| Georgia | 4.2 | 1.8 | 1.2 | 2.4 | 3.0 |
| Maryland | .8 | 1.2 | 1.5 | .9 | .9 |
| North Carolina | 1.2 | .8 | .5 | 3.4 | .5 |
| South Carolina | 1.7 | 2.3 | 1.3 | 1.7 | 1.7 |
| Virginia | .2 | 1.3 | 2.0 | .4 | .7 |
| West Virginia | .3 | .1 | .0 | .9 | .1 |
| **East South Central** | **1.2** | **.8** | **1.8** | **1.2** | **1.3** |
| Alabama | 3.0 | 1.3 | 5.2 | 2.0 | 3.8 |
| Kentucky | .9 | .9 | 3.4 | .6 | 2.2 |
| Mississippi | 6.1 | 3.4 | 2.8 | 5.7 | 4.1 |
| Tennessee | .3 | .4 | 1.3 | 6.3 | .4 |
| **West South Central** | **.5** | **1.0** | **1.2** | **1.4** | **.6** |
| Arkansas | 1.8 | 2.7 | 2.4 | 3.4 | 2.1 |
| Louisiana | 1.8 | .8 | .8 | 7.7 | 1.5 |
| Oklahoma | 2.5 | .2 | 1.5 | 1.6 | 1.0 |
| Texas | .4 | 1.5 | 1.7 | 1.2 | .8 |
| **Mountain** | **.5** | **.5** | **1.7** | **3.0** | **.7** |
| Arizona | .8 | .9 | 6.6 | 3.2 | 1.7 |
| Colorado | 1.1 | 1.5 | .8 | 16.7 | .9 |
| Idaho | 1.3 | 1.0 | 2.5 | 4.7 | 1.3 |
| Montana | 2.7 | 3.1 | 20.4 | 2.3 | 7.2 |
| Nevada | .9 | .3 | 1.9 | 3.9 | .6 |
| New Mexico | .5 | .3 | .6 | 7.1 | .6 |
| Utah | 1.9 | 1.4 | .8 | 1.9 | 1.2 |
| Wyoming | 1.7 | .8 | 1.7 | 21.2 | 1.0 |
| **Pacific Contiguous** | **1.1** | **2.2** | **2.7** | **5.6** | **1.8** |
| California | 1.1 | 3.0 | 3.1 | 10.6 | 1.9 |
| Oregon | 1.8 | 2.9 | 2.0 | 8.1 | 2.5 |
| Washington | 4.7 | .8 | 1.3 | 3.8 | 3.5 |
| **Pacific Noncontiguous** | **.7** | **.9** | **1.3** | **4.1** | **1.0** |
| Alaska | .9 | 1.5 | 2.1 | 5.8 | 1.5 |
| Hawaii | .9 | 1.0 | 1.3 | 1.1 | 1.1 |
| **U.S. Average** | **.4** | **.8** | **.6** | **.8** | **.4** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Notes: •See technical notes for CV methodology. •It should be noted that such things as large changes in retail sales, reclassification of retail sales, or changes in billing procedures can contribute to unusually high coefficient of variations.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions."

## Table 55. Estimated U.S. Electric Utility Average Revenue per Kilowatthour to Ultimate Consumers by Sector, Census Division, and State, Year-to-Date 1999 and 1998
(Cents)

| Census Division and State | Residential | | Commercial | | Industrial | | Other[1] | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 | 1999 | 1998 |
| **New England** | **11.1** | **11.6** | **9.5** | **10.0** | **7.6** | **8.1** | **13.1** | **13.5** | **9.8** | **10.2** |
| Connecticut | 11.3 | 11.9 | 9.6 | 10.1 | 7.2 | 7.7 | 13.4 | 14.1 | 9.9 | 10.4 |
| Maine | 13.2 | 13.0 | 12.2 | 12.0 | 7.7 | 7.8 | 26.4 | 24.1 | 10.9 | 10.8 |
| Massachusetts | 9.9 | 10.7 | 8.5 | 9.2 | 7.3 | 8.3 | 12.0 | 13.2 | 8.8 | 9.6 |
| New Hampshire | 13.8 | 12.9 | 11.4 | 11.3 | 9.2 | 9.1 | 12.3 | 12.3 | 11.9 | 11.4 |
| Rhode Island | 11.0 | 11.9 | 9.3 | 10.4 | 7.5 | 8.5 | 12.6 | 9.9 | 9.7 | 10.6 |
| Vermont | 13.0 | 12.3 | 12.0 | 11.3 | 8.2 | 8.0 | 14.5 | 14.4 | 11.4 | 10.8 |
| **Middle Atlantic** | **10.9** | **11.2** | **9.5** | **9.9** | **5.1** | **5.7** | **8.8** | **8.8** | **8.9** | **9.2** |
| New Jersey | 11.2 | 11.1 | 9.8 | 9.7 | 7.8 | 7.6 | 16.3 | 16.3 | 10.0 | 9.8 |
| New York | 13.5 | 13.8 | 11.5 | 11.3 | 4.5 | 5.0 | 8.4 | 8.2 | 10.5 | 10.6 |
| Pennsylvania | 8.5 | 8.9 | 6.8 | 7.9 | 4.6 | 5.5 | 10.1 | 11.7 | 6.7 | 7.5 |
| **East North Central** | **7.7** | **8.3** | **7.1** | **7.2** | **4.4** | **4.4** | **6.6** | **6.8** | **6.2** | **6.4** |
| Illinois | 7.8 | 9.9 | 6.9 | 7.5 | 4.7 | 4.9 | 6.2 | 6.5 | 6.4 | 7.3 |
| Indiana | 6.8 | 7.0 | 6.1 | 6.1 | 4.0 | 4.0 | 9.0 | 8.8 | 5.4 | 5.4 |
| Michigan | 8.6 | 8.6 | 7.9 | 7.9 | 5.0 | 5.0 | 10.6 | 10.4 | 7.2 | 7.1 |
| Ohio | 7.9 | 8.2 | 7.5 | 7.6 | 4.2 | 4.3 | 6.2 | 6.5 | 6.2 | 6.3 |
| Wisconsin | 7.2 | 7.0 | 5.8 | 5.7 | 3.9 | 3.8 | 7.3 | 6.7 | 5.5 | 5.4 |
| **West North Central** | **6.5** | **6.6** | **5.6** | **5.7** | **4.0** | **4.0** | **6.2** | **5.8** | **5.4** | **5.4** |
| Iowa | 7.6 | 8.0 | 6.0 | 6.4 | 3.6 | 3.8 | 6.1 | 6.0 | 5.5 | 5.8 |
| Kansas | 7.0 | 7.1 | 6.0 | 6.2 | 4.4 | 4.4 | 8.5 | 8.7 | 5.9 | 6.0 |
| Minnesota | 7.0 | 7.0 | 5.9 | 5.9 | 4.3 | 4.2 | 7.4 | 7.3 | 5.6 | 5.4 |
| Missouri | 5.9 | 6.0 | 5.1 | 5.1 | 3.8 | 3.7 | 5.6 | 5.8 | 5.2 | 5.2 |
| Nebraska | 5.5 | 5.5 | 5.0 | 5.1 | 3.4 | 3.6 | 6.6 | 5.1 | 4.8 | 4.8 |
| North Dakota | 5.9 | 5.8 | 5.8 | 5.7 | 4.3 | 4.3 | 4.4 | 4.4 | 5.5 | 5.4 |
| South Dakota | 6.9 | 6.7 | 6.4 | 6.3 | 4.4 | 4.1 | 4.3 | 3.7 | 6.2 | 5.9 |
| **South Atlantic** | **7.5** | **7.5** | **6.2** | **6.3** | **4.0** | **4.0** | **6.2** | **6.3** | **6.2** | **6.3** |
| Delaware | 8.3 | 8.5 | 6.6 | 6.8 | 4.5 | 4.8 | 13.6 | 13.1 | 6.6 | 6.7 |
| District of Columbia | 6.9 | 7.0 | 6.3 | 6.3 | 4.0 | 4.0 | 6.5 | 6.6 | 6.4 | 6.4 |
| Florida | 8.1 | 8.0 | 6.6 | 6.5 | 5.0 | 4.9 | 6.9 | 6.9 | 7.1 | 7.1 |
| Georgia | 6.8 | 6.9 | 6.4 | 7.0 | 3.7 | 3.7 | 8.4 | 8.6 | 5.7 | 5.9 |
| Maryland | 7.4 | 7.5 | 5.9 | 5.9 | 3.9 | 3.8 | 8.7 | 8.1 | 6.3 | 6.2 |
| North Carolina | 7.8 | 7.8 | 6.3 | 6.3 | 4.4 | 4.5 | 7.2 | 7.1 | 6.4 | 6.4 |
| South Carolina | 7.3 | 7.3 | 6.3 | 6.3 | 3.5 | 3.5 | 6.2 | 6.1 | 5.5 | 5.4 |
| Virginia | 7.0 | 7.3 | 5.5 | 5.7 | 3.8 | 3.9 | 5.1 | 5.2 | 5.8 | 5.9 |
| West Virginia | 6.1 | 6.1 | 5.6 | 5.5 | 3.8 | 3.8 | 8.5 | 8.3 | 5.1 | 5.0 |
| **East South Central** | **6.0** | **6.2** | **6.0** | **6.2** | **3.6** | **3.6** | **6.0** | **6.1** | **4.9** | **5.0** |
| Alabama | 6.4 | 6.4 | 6.3 | 6.5 | 3.4 | 3.4 | 7.3 | 7.2 | 5.0 | 5.0 |
| Kentucky | 5.3 | 5.5 | 5.1 | 5.2 | 2.8 | 2.8 | 4.5 | 4.6 | 3.9 | 4.0 |
| Mississippi | 6.2 | 6.7 | 6.1 | 6.9 | 3.9 | 4.1 | 7.6 | 8.8 | 5.3 | 5.7 |
| Tennessee | 6.2 | 6.2 | 6.5 | 6.4 | 4.6 | 4.5 | 8.4 | 8.3 | 5.6 | 5.5 |
| **West South Central** | **6.8** | **6.9** | **6.4** | **6.5** | **3.9** | **4.0** | **6.1** | **6.1** | **5.6** | **5.7** |
| Arkansas | 6.7 | 6.9 | 5.3 | 5.5 | 3.6 | 3.7 | 6.1 | 6.4 | 5.1 | 5.3 |
| Louisiana | 6.5 | 7.1 | 6.3 | 6.9 | 3.8 | 4.3 | 5.8 | 6.3 | 5.3 | 5.8 |
| Oklahoma | 5.9 | 5.8 | 4.8 | 4.8 | 3.4 | 3.4 | 4.2 | 3.9 | 4.8 | 4.7 |
| Texas | 7.0 | 7.0 | 6.8 | 6.8 | 4.1 | 4.0 | 6.6 | 6.5 | 5.9 | 5.8 |
| **Mountain** | **7.1** | **7.1** | **6.1** | **6.2** | **4.0** | **3.9** | **5.1** | **5.3** | **5.7** | **5.7** |
| Arizona | 7.7 | 7.7 | 6.7 | 7.2 | 5.1 | 4.7 | 4.3 | 4.6 | 6.6 | 6.7 |
| Colorado | 7.3 | 7.3 | 5.5 | 5.6 | 4.3 | 4.3 | 8.1 | 8.7 | 5.9 | 6.0 |
| Idaho | 5.3 | 5.0 | 4.5 | 4.3 | 2.7 | 2.5 | 5.0 | 4.8 | 4.1 | 3.9 |
| Montana | 6.9 | 6.7 | 6.3 | 6.3 | 4.4 | 3.7 | 7.9 | 7.7 | 6.0 | 5.3 |
| Nevada | 7.3 | 7.1 | 6.7 | 6.6 | 4.2 | 4.1 | 3.8 | 3.5 | 5.7 | 5.6 |
| New Mexico | 8.7 | 8.8 | 7.9 | 7.9 | 4.4 | 4.5 | 5.6 | 6.1 | 6.8 | 6.9 |
| Utah | 6.5 | 6.8 | 5.5 | 5.6 | 3.2 | 3.4 | 4.3 | 4.4 | 4.9 | 5.1 |
| Wyoming | 6.1 | 6.1 | 5.2 | 5.2 | 3.4 | 3.4 | 3.5 | 3.5 | 4.4 | 4.4 |
| **Pacific Contiguous** | **8.0** | **8.0** | **7.1** | **7.5** | **4.5** | **4.6** | **5.6** | **5.8** | **6.7** | **6.8** |
| California | 10.3 | 10.3 | 8.1 | 8.6 | 5.5 | 5.8 | 7.4 | 7.6 | 8.2 | 8.4 |
| Oregon | 5.7 | 5.8 | 5.0 | 5.1 | 3.4 | 3.2 | 5.1 | 4.9 | 4.9 | 4.8 |
| Washington | 5.1 | 5.1 | 5.1 | 5.1 | 3.0 | 2.9 | 3.8 | 3.9 | 4.5 | 4.4 |
| **Pacific Noncontiguous** | **12.0** | **13.1** | **10.6** | **11.3** | **8.8** | **9.6** | **13.8** | **14.3** | **10.6** | **11.4** |
| Alaska | 10.9 | 11.4 | 9.0 | 9.4 | 7.4 | 7.6 | 14.3 | 14.8 | 9.7 | 10.1 |
| Hawaii | 13.0 | 14.4 | 12.0 | 13.0 | 9.1 | 10.1 | 11.8 | 12.7 | 11.2 | 12.2 |
| **U.S. Average** | **7.79** | **7.96** | **7.05** | **7.28** | **4.26** | **4.36** | **6.66** | **6.74** | **6.43** | **6.55** |

[1] Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Notes: •Values for 1999 are estimates based on a cutoff model sample; see Technical Notes for a discussion of the sample design for the Form EIA-826. Values for 1998 have been revised and are preliminary. Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions."

# Monthly Plant Aggregates: U.S. Electric Utility Net Generation and Fuel Consumption

**Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999**

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Alabama Elec Coop Inc** | **237,996** | **-3** | **46,766** | **2,966** | **—** | **—** | **110** | * | **383** |
| Gantt (AL) | — | — | — | 835 | — | — | — | — | — |
| Lowman (AL) | 237,996 | — | — | — | — | — | 110 | — | — |
| McIntosh-CAES (AL) | — | — | 1,778 | — | — | — | — | — | 21 |
| McWilliams (AL) | — | — | 44,988 | — | — | — | — | — | 362 |
| Point A (AL) | — | — | — | 2,131 | — | — | — | — | — |
| Portland (FL) | — | -3 | — | — | — | — | — | * | — |
| **Alabama Power Co** | **3,743,735** | **6,891** | **17,683** | **564,712** | **1,151,277** | **—** | **1,700** | **12** | **169** |
| Bankhead Dam (AL) | — | — | — | 32,239 | — | — | — | — | — |
| Barry (AL) | 844,996 | — | 5,652 | — | — | — | 340 | — | 52 |
| Chickasaw (AL) | — | — | — | — | — | — | — | — | — |
| Farley (AL) | — | — | — | — | 1,151,277 | — | — | — | — |
| Gadsden New (AL) | 23,770 | — | 624 | — | — | — | 15 | — | 9 |
| Gaston, E C (AL) | 586,799 | 2,458 | — | — | — | — | 234 | 4 | — |
| Gorgas (AL) | 709,702 | 914 | — | — | — | — | 294 | 2 | — |
| Greene County (AL) | 316,204 | 3,423 | 9,799 | — | — | — | 128 | 6 | 90 |
| H Neely Henry Dam (AL) | — | — | — | 28,486 | — | — | — | — | — |
| Harris (AL) | — | — | — | 12,172 | — | — | — | — | — |
| Holt Dam (AL) | — | — | — | 26,812 | — | — | — | — | — |
| Jordan (AL) | — | — | — | 29,575 | — | — | — | — | — |
| Lay Dam (AL) | — | — | — | 81,500 | — | — | — | — | — |
| Lewis Smith Dam (AL) | — | — | — | 48,804 | — | — | — | — | — |
| Logan Martin Dam (AL) | — | — | — | 52,278 | — | — | — | — | — |
| Martin Dam (AL) | — | — | — | 24,793 | — | — | — | — | — |
| Miller (AL) | 1,262,264 | 96 | 1,608 | — | — | — | 689 | * | 18 |
| Mitchell Dam (AL) | — | — | — | 66,422 | — | — | — | — | — |
| Thurlow Dam (AL) | — | — | — | 18,724 | — | — | — | — | — |
| Walter Bouldin Dam (AL) | — | — | — | 104,389 | — | — | — | — | — |
| Weiss Dam (AL) | — | — | — | 26,941 | — | — | — | — | — |
| Yates Dam (AL) | — | — | — | 11,577 | — | — | — | — | — |
| **Alaska Elec Lgt & Pwr Co** | **—** | **82** | **—** | **3,422** | **—** | **—** | **—** | * | **—** |
| Annex Creek (AK) | — | — | — | 2,082 | — | — | — | — | — |
| Auke Bay (AK) | — | 35 | — | — | — | — | — | * | — |
| Gold Creek (AK) | — | — | — | — | — | — | — | — | — |
| Lemon Creek (AK) | — | 47 | — | — | — | — | — | * | — |
| Salmon Creek (AK) | — | — | — | — | — | — | — | — | — |
| Salmon Creek 2 (AK) | — | — | — | 1,340 | — | — | — | — | — |
| **Alaska Power Admn** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** |
| Eklutna (AK) | — | — | — | — | — | — | — | — | — |
| Snettisham (AK) | — | — | — | — | — | — | — | — | — |
| **Alexandria (City of)** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** |
| D G Hunter (LA) | — | — | — | — | — | — | — | — | — |
| **Amer Mun Power-Ohio Inc** | **110,190** | **—** | **209** | **—** | **—** | **—** | **71** | **—** | **3** |

*See footnotes at end of table.*

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Amer Mun Power-Ohio Inc** | | | | | | | | | |
| Richard Gorsuch (OH) | 110,190 | — | 209 | — | — | — | 71 | — | 3 |
| **Ames (City of)** | **28,409** | **180** | — | — | — | — | **18** | * | — |
| Ames (IA) | 28,409 | 180 | — | — | — | — | 18 | * | — |
| Ames Gt (IA) | — | — | — | — | — | — | — | — | — |
| **Anchorage (City of)** | **—** | **22** | **71,680** | **—** | **—** | **—** | **—** | * | **694** |
| Anchorage (AK) | — | 2 | 198 | — | — | — | — | * | 6 |
| GMS 2 (AK) | — | 20 | 71,482 | — | — | — | — | * | 688 |
| **Appalachian Power Co** | **2,914,598** | **5,062** | **—** | **40,687** | **—** | **—** | **1,130** | **8** | **—** |
| Amos, John E (WV) | 1,511,991 | 2,309 | — | — | — | — | 591 | 4 | — |
| Buck (VA) | — | — | — | 3,160 | — | — | — | — | — |
| Byllesby 2 (VA) | — | — | — | 4,204 | — | — | — | — | — |
| Claytor (VA) | — | — | — | 14,202 | — | — | — | — | — |
| Clinch River (VA) | 379,449 | 271 | — | — | — | — | 148 | * | — |
| Glen Lyn (VA) | 158,213 | 925 | — | — | — | — | 60 | 2 | — |
| Kanawha River (WV) | 200,832 | 224 | — | — | — | — | 80 | * | — |
| Leesville (VA) | — | — | — | 1,230 | — | — | — | — | — |
| London (WV) | — | — | — | 8,229 | — | — | — | — | — |
| Marmet (WV) | — | — | — | 4,638 | — | — | — | — | — |
| Mountaineer (WV) | 664,113 | 1,333 | — | — | — | — | 251 | 2 | — |
| Niagara (VA) | — | — | — | 613 | — | — | — | — | — |
| Reusens (VA) | — | — | — | 2,942 | — | — | — | — | — |
| Smith Mountain (VA) | — | — | — | -9,665 | — | — | — | — | — |
| Winfield (WV) | — | — | — | 11,134 | — | — | — | — | — |
| **Arizona Elec Pwr Coop Inc** | **198,895** | **—** | **939** | **—** | **—** | **—** | **109** | **—** | **11** |
| Apache Station (AZ) | 198,895 | — | 939 | — | — | — | 109 | — | 11 |
| **Arizona Public Service Co** | **1,756,616** | **113** | **102,443** | **2,564** | **2,535,358** | **—** | **1,179** | * | **1,124** |
| Childs (AZ) | — | — | — | 1,578 | — | — | — | — | — |
| Cholla (AZ) | 580,424 | 111 | 134 | — | — | — | 315 | * | 2 |
| Fairview (AZ) | — | 2 | — | — | — | — | — | * | — |
| Four Corners (NM) | 1,176,192 | — | 3,395 | — | — | — | 864 | — | 36 |
| Irving (AZ) | — | — | — | 986 | — | — | — | — | — |
| Ocotillo (AZ) | — | — | 16,006 | — | — | — | — | — | 193 |
| Palo Verde (AZ) | — | — | — | — | 2,535,358 | — | — | — | — |
| Phoenix (AZ) | — | — | 50,985 | — | — | — | — | — | 560 |
| Saguaro (AZ) | — | — | 7,572 | — | — | — | — | — | 90 |
| Yucca (AZ) | — | — | 24,351 | — | — | — | — | — | 244 |
| **Arkansas Elec Coop Corp** | **—** | **—** | **18,865** | **19,468** | **—** | **—** | **—** | **—** | **222** |
| Bailey (AR) | — | — | 7,382 | — | — | — | — | — | 91 |
| Clyde Ellis (AR) | — | — | — | 10,787 | — | — | — | — | — |
| Dam 9 (AR) | — | — | — | 8,681 | — | — | — | — | — |
| Fitzhugh (AR) | — | — | 1,371 | — | — | — | — | — | 17 |
| Mc Clellan (AR) | — | — | 10,112 | — | — | — | — | — | 115 |
| **Arkansas Power & Light Co** | **1,407,924** | **4,157** | **112,686** | **20,015** | **598,417** | **—** | **850** | **8** | **1,195** |
| Arkansas Nuclear One(AR) | — | — | — | — | 598,417 | — | — | — | — |
| Blytheville (AR) | — | 192 | — | — | — | — | — | 1 | — |
| Carpenter (AR) | — | — | — | 13,374 | — | — | — | — | — |
| Couch, Harvey (AR) | — | — | 2,606 | — | — | — | — | — | 51 |
| Independence (AR) | 854,309 | 901 | — | — | — | — | 510 | 2 | — |
| L Catherine (AR) | — | — | 103,606 | — | — | — | — | — | 1,049 |
| Lynch, Cecil (AR) | — | — | — | — | — | — | — | — | — |
| Mablevale (AR) | — | — | — | — | — | — | — | — | — |
| Moses, Ham (AR) | — | — | — | — | — | — | — | — | — |
| Remmel (AR) | — | — | — | 6,641 | — | — | — | — | — |
| Ritchie, R E (AR) | — | — | 6,474 | — | — | — | — | — | 96 |
| White Bluff (AR) | 553,615 | 3,064 | — | — | — | — | 340 | 5 | — |
| **Associated Elec Coop** | **1,341,956** | **1,196** | **—** | **—** | **—** | **—** | **776** | **2** | **—** |
| New Madrid (MO) | 662,588 | 566 | — | — | — | — | 375 | 1 | — |
| Thomas Hill (MO) | 679,368 | 544 | — | — | — | — | 402 | 1 | — |
| Unionville (MO) | — | 86 | — | — | — | — | — | * | — |
| **Atlantic City Elec Co** | **109,197** | **6,928** | **1,644** | **—** | **—** | **—** | **43** | **14** | **24** |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Atlantic City Elec Co** | | | | | | | | | |
| Carlls Corner (NJ) | — | 91 | 2 | — | — | — | — | 1 | * |
| Cedar (NJ) | — | 127 | — | — | — | — | — | * | — |
| Cumberland St (NJ) | — | — | 292 | — | — | — | — | — | 5 |
| Deepwater (NJ) | 26,025 | 664 | 818 | — | — | — | 8 | 2 | 9 |
| England, B L (NJ) | 83,172 | 5,785 | — | — | — | — | 35 | 10 | — |
| Mantu Depot (NJ) | — | — | — | — | — | — | — | — | — |
| Mantu Depot (NJ) | — | — | — | — | — | — | — | — | — |
| Mickleton Street (NJ) | — | — | 244 | — | — | — | — | — | 5 |
| Middle (NJ) | — | 190 | — | — | — | — | — | 1 | — |
| Missouri Avenue (NJ) | — | 71 | — | — | — | — | — | * | — |
| Sherman Avenue (NJ) | — | — | 288 | — | — | — | — | — | 4 |
| **Austin (City of)** | **—** | **1,590** | **52,513** | **—** | **—** | **8** | **—** | **3** | **590** |
| Decker Creek (TX) | — | 1,590 | 38,570 | — | — | 8 | — | 3 | 435 |
| Holly Street (TX) | — | — | 13,943 | — | — | — | — | — | 155 |
| **Avista Corporation** | **—** | **—** | **1,109** | **253,445** | **—** | **23,330** | **—** | **—** | **13** |
| Cabinet Gorge (ID) | — | — | — | 55,100 | — | — | — | — | — |
| Kettle Fls (WA) | — | — | 33 | — | — | 23,330 | — | — | * |
| Little Falls (WA) | — | — | — | 23,578 | — | — | — | — | — |
| Long Lake (WA) | — | — | — | 55,172 | — | — | — | — | — |
| Meyers Falls (WA) | — | — | — | 752 | — | — | — | — | — |
| Monroe Street (WA) | — | — | — | 9,627 | — | — | — | — | — |
| Nine Mile (WA) | — | — | — | 14,859 | — | — | — | — | — |
| Northeast (WA) | — | — | 37 | — | — | — | — | — | 1 |
| Noxon Rapids (MT) | — | — | — | 78,224 | — | — | — | — | — |
| Post Falls (ID) | — | — | — | 9,676 | — | — | — | — | — |
| Rathdrum (WA) | — | — | 1,039 | — | — | — | — | — | 12 |
| Upper Falls (WA) | — | — | — | 6,457 | — | — | — | — | — |
| **Baltimore Gas & Elec Co** | **945,808** | **122,909** | **3,580** | **—** | **1,169,811** | **—** | **370** | **224** | **40** |
| Brandon (MD) | 788,767 | 980 | — | — | — | — | 313 | 2 | — |
| Calvert Cliffs (MD) | — | — | — | — | 1,169,811 | — | — | — | — |
| Crane, C P (MD) | 101,894 | 798 | — | — | — | — | 36 | 1 | — |
| Gould Street (MD) | — | 1,230 | 528 | — | — | — | — | 2 | 5 |
| Notch Cliff (MD) | — | — | — | — | — | — | — | — | — |
| Perryman (MD) | — | 349 | — | — | — | — | — | 1 | — |
| Philadelphia Road (MD) | — | — | — | — | — | — | — | — | — |
| Riverside (MD) | — | — | 452 | — | — | — | — | — | 8 |
| Wagner, H A (MD) | 55,147 | 119,552 | 2,600 | — | — | — | 21 | 218 | 27 |
| Westport (MD) | — | — | — | — | — | — | — | — | — |
| **Basin Elec Power Coop** | **1,909,775** | **1,960** | **—** | **—** | **—** | **—** | **1,405** | **4** | **—** |
| Antelope Valley (ND) | 561,371 | 1 | — | — | — | — | 468 | * | — |
| Laramie River (WY) | 985,997 | 1,404 | — | — | — | — | 638 | 3 | — |
| Leland Olds (ND) | 362,407 | 488 | — | — | — | — | 299 | 1 | — |
| Sprit Mound (SD) | — | 67 | — | — | — | — | — | * | — |
| **Black Hills Pwr and Lt Co** | **100,286** | **31** | **347** | **—** | **—** | **—** | **82** | ***** | **4** |
| French, Ben (SD) | 11,930 | 20 | 347 | — | — | — | 10 | * | 4 |
| Neil Simpson 2 (WY) | 55,917 | 7 | — | — | — | — | 41 | * | — |
| Osage (WY) | 19,890 | — | — | — | — | — | 20 | — | — |
| Simpson, Neil (WY) | 12,549 | 4 | — | — | — | — | 11 | * | — |
| **Boston Edison Co** | **—** | **—** | **—** | **—** | **442,447** | **—** | **—** | **—** | **—** |
| Pilgrim (MA) | — | — | — | — | 442,447 | — | — | — | — |
| **Braintree (City of)** | **—** | **879** | **35** | **—** | **—** | **—** | **—** | **2** | **1** |
| Potter Station (MA) | — | 879 | 35 | — | — | — | — | 2 | 1 |
| **Brazos Elec Pwr Coop Inc** | **—** | **—** | **90,620** | **—** | **—** | **—** | **—** | **—** | **961** |
| Miller, R W (TX) | — | — | 90,620 | — | — | — | — | — | 961 |
| North Texas (TX) | — | — | — | — | — | — | — | — | — |
| **Brownsville (City of)** | **—** | **—** | **979** | **—** | **—** | **—** | **—** | **—** | **13** |
| Si Ray (TX) | — | — | 979 | — | — | — | — | — | 13 |
| **Bryan (City of)** | **—** | **—** | **25,498** | **—** | **—** | **—** | **—** | **—** | **289** |
| Bryan (TX) | — | — | −110 | — | — | — | — | — | — |
| Dansby (TX) | — | — | 25,608 | — | — | — | — | — | 289 |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Burbank (City of)** | — | — | –51 | — | — | — | — | — | 1 |
| Magnolia (CA) | — | — | –33 | — | — | — | — | — | * |
| Olive (CA) | — | — | –18 | — | — | — | — | — | 1 |
| **Burlington (City of)** | — | — | — | — | — | 10,009 | — | 1 | 2 |
| Burlington (VT) | — | — | — | — | — | — | — | * | — |
| J C McNeil (VT) | — | — | — | — | — | 10,009 | — | 1 | 2 |
| **Cajun Elec Power Coop Inc** | 723,056 | 1,801 | 36,486 | — | — | — | 458 | 3 | 403 |
| Big Cajun 1 (LA) | — | — | 36,486 | — | — | — | — | — | 403 |
| Big Cajun 2 (LA) | 723,056 | 1,801 | — | — | — | — | 458 | 3 | — |
| **California (State of)** | — | — | — | 436,600 | — | –53 | — | — | — |
| Alamo (CA) | — | — | — | –89 | — | — | — | — | — |
| Bottle Rock (CA) | — | — | — | — | — | –53 | — | — | — |
| Devil Canyon (CA) | — | — | — | 5,925 | — | — | — | — | — |
| Edw Hyatt (CA) | — | — | — | 406,084 | — | — | — | — | — |
| Mojave Siphon (CA) | — | — | — | –73 | — | — | — | — | — |
| Thermal Div (CA) | — | — | — | 424 | — | — | — | — | — |
| Thermalito (CA) | — | — | — | 55,648 | — | — | — | — | — |
| W E Warne (CA) | — | — | — | 100 | — | — | — | — | — |
| William R Gianelli (CA) | — | — | — | –31,419 | — | — | — | — | — |
| **Cardinal Operating Co** | 715,077 | 616 | — | — | — | — | 281 | 1 | — |
| Cardinal (OH) | 715,077 | 616 | — | — | — | — | 281 | 1 | — |
| **Carolina Power & Light Co** | 1,951,499 | 6,776 | –80 | 65,932 | 2,175,017 | — | 752 | 15 | 7 |
| Asheville (NC) | 174,679 | 134 | — | — | — | — | 70 | * | — |
| Blewett (NC) | — | –33 | — | 11,630 | — | — | — | — | — |
| Brunswick (NC) | — | — | — | — | 1,111,605 | — | — | — | — |
| Cape Fear (NC) | 149,546 | 156 | — | — | — | — | 59 | 1 | — |
| Darlington County (SC) | — | 727 | –80 | — | — | — | — | 3 | 7 |
| Harris (NC) | — | — | — | — | 569,332 | — | — | — | — |
| Lee (NC) | 66,138 | 851 | — | — | — | — | 28 | 2 | — |
| Marshall (NC) | — | — | — | 2,589 | — | — | — | — | — |
| Mayo (NC) | 348,561 | 1,518 | — | — | — | — | 140 | 3 | — |
| Morehead (NC) | — | –20 | — | — | — | — | — | — | — |
| Robinson, H B (SC) | 60,005 | 297 | — | — | 494,080 | — | 23 | * | — |
| Roxboro (NC) | 975,755 | 2,380 | — | — | — | — | 361 | 4 | — |
| Sutton (NC) | 156,574 | 740 | — | — | — | — | 62 | 1 | — |
| Tillery (NC) | — | — | — | 15,521 | — | — | — | — | — |
| Walters (NC) | — | — | — | 36,192 | — | — | — | — | — |
| Weatherspoon (NC) | 20,241 | 26 | — | — | — | — | 9 | * | — |
| **Cedar Falls (City of)** | –165 | — | –37 | — | — | — | — | — | — |
| Cedar Falls Gt (IA) | –165 | — | — | — | — | — | — | — | — |
| Streeter (IA) | — | — | –37 | — | — | — | — | — | — |
| **Cent NE Pub Pwr & Ir Dist** | — | — | — | 35,413 | — | — | — | — | — |
| Jeffrey Canyon (NE) | — | — | — | 10,324 | — | — | — | — | — |
| Johnson No 1 (NE) | — | — | — | 9,112 | — | — | — | — | — |
| Johnson No 2 (NE) | — | — | — | 11,664 | — | — | — | — | — |
| Kingsley (NE) | — | — | — | 4,313 | — | — | — | — | — |
| **Central Elec Pwr Coop** | 28,801 | 10 | — | — | — | — | 14 | * | — |
| Chamois (MO) | 28,801 | 10 | — | — | — | — | 14 | * | — |
| **Central Hudson Gas & Elec** | 188,014 | 371,291 | 28,403 | 14,172 | — | — | 75 | 607 | 318 |
| Coxsackie (NY) | — | 29 | 12 | — | — | — | — | * | * |
| Danskammer (NY) | 188,014 | 2 | 1,311 | — | — | — | 75 | * | 17 |
| Dashville (NY) | — | — | — | 1,180 | — | — | — | — | — |
| High Falls (NY) | — | — | — | 874 | — | — | — | — | — |
| Neversink (NY) | — | — | — | 5,154 | — | — | — | — | — |
| Roseton (NY) | — | 371,253 | 27,080 | — | — | — | — | 607 | 301 |
| South Cairo (NY) | — | 7 | — | — | — | — | — | * | — |
| Sturgeon Pool (NY) | — | — | — | 6,964 | — | — | — | — | — |
| **Central Ill Public Ser Co** | 894,079 | 1,766 | — | — | — | — | 455 | 3 | — |
| Coffeen (IL) | 262,518 | 167 | — | — | — | — | 132 | * | — |
| Grand Tower (IL) | 23,907 | 181 | — | — | — | — | 12 | * | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Central Ill Public Ser Co** | | | | | | | | | |
| Hutsonville (IL) | 17,994 | 326 | — | — | — | — | 9 | 1 | — |
| Meredosia (IL) | 69,977 | 56 | — | — | — | — | 38 | * | — |
| Newton (IL) | 519,683 | 1,036 | — | — | — | — | 264 | 2 | — |
| **Central Iowa Power Coop** | **32,177** | **57** | — | — | — | — | **17** | * | — |
| Fair Station (IA) | 32,177 | — | — | — | — | — | 17 | — | — |
| Summit Lake (IA) | — | 57 | — | — | — | — | — | * | — |
| **Central Illinois Light Co** | **466,810** | **819** | **774** | — | — | — | **217** | **1** | **5** |
| Duck Creek (IL) | 195,109 | 296 | — | — | — | — | 93 | 1 | — |
| E D Edwards (IL) | 271,701 | 523 | — | — | — | — | 124 | 1 | — |
| Pekin Cogen (IL) | — | — | 733 | — | — | — | — | — | 4 |
| Sterling Avenue (IL) | — | — | 41 | — | — | — | — | — | 1 |
| **Central Louisiana Elec Co** | **340,742** | — | **220,178** | — | — | — | **264** | — | **2,124** |
| Coughlin (LA) | — | — | 23,814 | — | — | — | — | — | 239 |
| Dolet Hills (LA) | 281,814 | — | 45 | — | — | — | 227 | — | * |
| Franklin (LA) | — | — | — | — | — | — | — | — | — |
| Rodemacher (LA) | 58,928 | — | 86,700 | — | — | — | 37 | — | 839 |
| Teche (LA) | — | — | 109,619 | — | — | — | — | — | 1,046 |
| **Central Maine Power Co** | — | **84,051** | — | **155,801** | — | — | — | **147** | — |
| Andro Lower (ME) | — | — | — | -11 | — | — | — | — | — |
| Androscoggin 3 (ME) | — | — | — | 2,654 | — | — | — | — | — |
| Bar Mills (ME) | — | — | — | 2,399 | — | — | — | — | — |
| Bates Lower (ME) | — | — | — | — | — | — | — | — | — |
| Bates Upper (ME) | — | — | — | -32 | — | — | — | — | — |
| Bonny Eagle (ME) | — | — | — | 5,315 | — | — | — | — | — |
| Brunswick (ME) | — | — | — | 8,156 | — | — | — | — | — |
| C. E. Monty (ME) | — | — | — | 11,641 | — | — | — | — | — |
| Cape (ME) | — | -60 | — | — | — | — | — | — | — |
| Cataract (ME) | — | — | — | 4,115 | — | — | — | — | — |
| Continental Mills (ME) | — | — | — | -18 | — | — | — | — | — |
| Deer Rips (ME) | — | — | — | 3,379 | — | — | — | — | — |
| Fort Halifax (ME) | — | — | — | 1,063 | — | — | — | — | — |
| Gulf Island (ME) | — | — | — | 12,034 | — | — | — | — | — |
| Harris (ME) | — | — | — | 23,375 | — | — | — | — | — |
| Hill Mill (ME) | — | — | — | -14 | — | — | — | — | — |
| Hiram (ME) | — | — | — | 5,236 | — | — | — | — | — |
| Islesboro (ME) | — | — | — | — | — | — | — | — | — |
| Mason (ME) | — | -27 | — | — | — | — | — | — | — |
| North Gorham (ME) | — | — | — | 544 | — | — | — | — | — |
| Oakland (ME) | — | — | — | 985 | — | — | — | — | — |
| Peaks Island (ME) | — | — | — | — | — | — | — | — | — |
| Rice Rips (ME) | — | — | — | 562 | — | — | — | — | — |
| Shawmut (ME) | — | — | — | 6,033 | — | — | — | — | — |
| Skelton (ME) | — | — | — | 11,983 | — | — | — | — | — |
| Smelt Hill (AK) | — | — | — | — | — | — | — | — | — |
| Union Gas (ME) | — | — | — | 548 | — | — | — | — | — |
| West Buxton (ME) | — | — | — | 3,940 | — | — | — | — | — |
| West Channel (MA) | — | — | — | — | — | — | — | — | — |
| Weston (ME) | — | — | — | 8,497 | — | — | — | — | — |
| Williams (ME) | — | — | — | 9,139 | — | — | — | — | — |
| Wyman Hydro (ME) | — | — | — | 34,278 | — | — | — | — | — |
| Wyman, W F (ME) | — | 84,138 | — | — | — | — | — | 147 | — |
| **Central Operating Co** | **492,554** | **1,688** | — | — | — | — | **182** | **3** | — |
| Sporn, Phil (WV) | 492,554 | 1,688 | — | — | — | — | 182 | 3 | — |
| **Central Power & Light Co** | **409,026** | **6** | **606,281** | **3,731** | — | — | **213** | * | **6,168** |
| Bates, J L (TX) | — | — | 48,336 | — | — | — | — | — | 538 |
| Coleto Creek (TX) | 409,026 | 6 | — | — | — | — | 213 | * | — |
| Davis, Barney M (TX) | — | — | 213,328 | — | — | — | — | — | 2,176 |
| Eagle Pass (TX) | — | — | — | 3,731 | — | — | — | — | — |
| Hill, Lon C (TX) | — | — | 86,594 | — | — | — | — | — | 898 |
| Joslin, E S (TX) | — | — | — | — | — | — | — | — | — |
| La Palma (TX) | — | — | 50,776 | — | — | — | — | — | 564 |
| Laredo (TX) | — | — | 37,182 | — | — | — | — | — | 386 |
| Nueces Bay (TX) | — | — | 167,080 | — | — | — | — | — | 1,579 |
| Victoria (TX) | — | — | 2,985 | — | — | — | — | — | 27 |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Chelan Pub Util Dist #1** | — | — | — | **897,715** | — | — | — | — | — |
| Chelan (WA) | — | — | — | 35,010 | — | — | — | — | — |
| Rock Island (WA) | — | — | — | 260,400 | — | — | — | — | — |
| Rocky Reach (WA) | — | — | — | 602,305 | — | — | — | — | — |
| **Chillicothe (City of)** | **1,578** | — | — | — | — | — | **1** | — | — |
| Chillicothe (MO) | 1,578 | — | — | — | — | — | 1 | — | — |
| **Chugach Elec Assn Inc** | — | — | **172,583** | **30,754** | — | — | — | — | **1,788** |
| Beluga (AK) | — | — | 160,798 | — | — | — | — | — | 1,611 |
| Bernice Lake (AK) | — | — | 11,261 | — | — | — | — | — | 170 |
| Bradley Lake (AK) | — | — | — | 24,645 | — | — | — | — | — |
| Cooper Lake (AK) | — | — | — | 6,109 | — | — | — | — | — |
| International (AK) | — | — | 27 | — | — | — | — | — | 1 |
| Soldotna (AK) | — | — | 497 | — | — | — | — | — | 7 |
| **Cincinnati Gas Elec Co** | **2,259,287** | **8,947** | **742** | — | — | — | **941** | **19** | **49** |
| Beckjord, Walter C (OH) | 531,612 | 2,988 | — | — | — | — | 229 | 5 | — |
| Dicks Creek (OH) | — | — | -143 | — | — | — | — | * | — |
| East Bend (KY) | 354,716 | 184 | — | — | — | — | 149 | * | — |
| Miami Fort (OH) | 681,748 | 1,209 | — | — | — | — | 282 | 2 | — |
| W. H. Zimmer ( ) | 691,211 | 4,335 | — | — | — | — | 280 | 7 | — |
| Woodsdale (OH) | — | 231 | 885 | — | — | — | — | 3 | 49 |
| **Citizens Utilities Co** | — | — | — | — | — | — | — | — | — |
| Valencia (AZ) | — | — | — | — | — | — | — | — | — |
| **Clarksdale (City of)** | — | **20** | **301** | — | — | — | — | * | **4** |
| South (MS) | — | 20 | 301 | — | — | — | — | * | 4 |
| Third St (MS) | — | — | — | — | — | — | — | — | — |
| **Cleveland (City of)** | — | **25** | **91** | — | — | — | — | * | **2** |
| Collinwood (OH) | — | — | 29 | — | — | — | — | * | 1 |
| Lake Road (OH) | — | — | — | — | — | — | — | — | — |
| West 41st Street (OH) | — | 25 | 62 | — | — | — | — | * | 1 |
| **Cleveland Elec Illum Co** | **411,579** | **1,041** | — | — | **770,083** | — | **179** | **3** | — |
| Ashtabula (OH) | 16,528 | 262 | — | — | — | — | 9 | 1 | — |
| Avon Lake (OH) | 278,963 | 54 | — | — | — | — | 116 | * | — |
| Eastlake (OH) | 112,473 | 633 | — | — | — | — | 49 | 1 | — |
| Lake Shore (OH) | 3,615 | 92 | — | — | — | — | 5 | 1 | — |
| Perry (OH) | — | — | — | — | 770,083 | — | — | — | — |
| **Coffeyville (City of)** | — | — | — | — | — | — | — | — | — |
| Coffeyville (KS) | — | — | — | — | — | — | — | — | — |
| **Colorado Springs(City of)** | **256,323** | **234** | **851** | **3,623** | — | — | **126** | * | **10** |
| Drake, Martin (CO) | 134,727 | — | 906 | — | — | — | 70 | — | 10 |
| George Birdsal (CO) | — | — | -55 | — | — | — | — | — | — |
| Manitou (CO) | — | — | — | 1,316 | — | — | — | — | — |
| Ray D. Nixon (CO) | 121,596 | 234 | — | — | — | — | 56 | * | — |
| Ruxton (CO) | — | — | — | — | — | — | — | — | — |
| Tesla (CO) | — | — | — | 2,307 | — | — | — | — | — |
| **Columbia (City of)** | **7,819** | — | — | — | — | — | **5** | — | — |
| Columbia (MO) | 7,819 | — | — | — | — | — | 5 | — | — |
| **Columbus Southern Pwr Co** | **652,221** | **296** | — | — | — | — | **285** | **1** | — |
| Conesville (OH) | 623,333 | 273 | — | — | — | — | 270 | * | — |
| Picway (OH) | 28,888 | 23 | — | — | — | — | 15 | * | — |
| **Commonwealth Edison Co** | **1,890,498** | **4,957** | **69,378** | — | **5,227,752** | — | **1,121** | **9** | **1,284** |
| Bloom (IL) | — | — | — | — | — | — | — | — | — |
| Braidwood (IL) | — | — | — | — | 1,520,609 | — | — | — | — |
| Byron (IL) | — | — | — | — | 1,531,575 | — | — | — | — |
| Calumet (IL) | — | — | — | — | — | — | — | — | — |
| Collins (IL) | — | — | 45,629 | — | — | — | — | — | 1,044 |
| Crawford (IL) | 158,511 | — | 2,769 | — | — | — | 94 | — | 28 |
| Dresden (IL) | — | — | — | — | 559,626 | — | — | — | — |
| Electric Junction (IL) | — | — | 202 | — | — | — | — | — | 4 |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Commonwealth Edison Co** | | | | | | | | | |
| Fisk Street (IL) | 130,455 | — | 658 | — | — | — | 71 | — | 6 |
| Joliet (IL) | 152,178 | 57 | 1,111 | — | — | — | 91 | * | 12 |
| Joliet 29 (IL) | 495,046 | — | 14,360 | — | — | — | 279 | — | 139 |
| Lasalle (IL) | — | — | — | — | 737,773 | — | — | — | — |
| Lombard (IL) | — | — | 221 | — | — | — | — | — | 3 |
| Powerton (IL) | 338,578 | — | 470 | — | — | — | 218 | — | 5 |
| Quad-cities (IL) | — | — | — | — | 878,169 | — | — | — | — |
| Sabrooke (IL) | — | 9 | — | — | — | — | — | * | — |
| Waukegan (IL) | 348,584 | 475 | 3,958 | — | — | — | 211 | 1 | 41 |
| Will County (IL) | 267,146 | 4,416 | — | — | — | — | 157 | 8 | — |
| **Connecticut Lgt & Pwr Co** | — | **483,933** | **73** | **37,256** | — | **37,861** | — | **846** | **1** |
| Bantam (CT) | — | — | — | 175 | — | — | — | — | — |
| Branford (CT) | — | 41 | — | — | — | — | — | * | — |
| Bulls Bridge (CT) | — | — | — | 4,324 | — | — | — | — | — |
| Cos Cob (CT) | — | 142 | — | — | — | — | — | * | — |
| Devon (CT) | — | 46,273 | 73 | — | — | — | — | 81 | 1 |
| Falls Village (CT) | — | — | — | 5,143 | — | — | — | — | — |
| Franklin (CT) | — | 32 | — | — | — | — | — | * | — |
| Middletown (CT) | — | 154,732 | — | — | — | — | — | 278 | — |
| Montville (CT) | — | 119,962 | — | — | — | — | — | 223 | — |
| Norwalk Harbor (CT) | — | 162,818 | — | — | — | — | — | 263 | — |
| Robertsville (CT) | — | — | — | 106 | — | — | — | — | — |
| Rocky River (CT) | — | — | — | -1,738 | — | — | — | — | — |
| Scotland (CT) | — | — | — | 1,090 | — | — | — | — | — |
| Shepaug (CT) | — | — | — | 14,357 | — | — | — | — | — |
| South Meadow (CT) | — | -86 | — | — | — | 37,861 | — | — | — |
| Stevenson (CT) | — | — | — | 11,465 | — | — | — | — | — |
| Taftville (CT) | — | — | — | 985 | — | — | — | — | — |
| Torrington (CT) | — | 33 | — | — | — | — | — | * | — |
| Tunnel (CT) | — | -14 | — | 1,349 | — | — | — | — | — |
| **Consol Edison Co N Y Inc** | — | **73,499** | **379,987** | — | **656,497** | — | — | **133** | **4,031** |
| Arthur Kill (NY) | — | — | 120,657 | — | — | — | — | — | 1,268 |
| Astoria (NY) | — | 59,145 | 195,168 | — | — | — | — | 95 | 1,951 |
| Buchanan (NY) | — | 53 | — | — | — | — | — | * | — |
| East River (NY) | — | 14,048 | 12,794 | — | — | — | — | 32 | 184 |
| Gowanus (NY) | — | 1,097 | — | — | — | — | — | 4 | — |
| Hudson Avenue (NY) | — | 16 | — | — | — | — | — | * | — |
| Indian Point (NY) | — | 10 | — | — | 656,497 | — | — | * | — |
| Narrows (NY) | — | 121 | 258 | — | — | — | — | * | 4 |
| Oil Storage (NY) | — | — | — | — | — | — | — | — | — |
| Oil Storage (NY) | — | — | — | — | — | — | — | — | — |
| Ravenswood (NY) | — | 2 | -1,078 | — | — | — | — | * | 16 |
| Waterside (NY) | — | — | 52,188 | — | — | — | — | — | 608 |
| 59Th Street (NY) | — | — | — | — | — | — | — | — | — |
| 74Th Street (NY) | — | -993 | — | — | — | — | — | 2 | — |
| **Consumers Power Co** | **1,561,770** | **4,316** | **1,678** | **-21,118** | **530,995** | — | **693** | **8** | **18** |
| Alcona (MI) | — | — | — | 2,099 | — | — | — | — | — |
| Allegan Dam (MI) | — | — | — | 1,226 | — | — | — | — | — |
| Campbell, J H (MI) | 819,570 | 447 | — | — | — | — | 349 | 1 | — |
| Cobb, B C (MI) | 165,183 | 253 | 811 | — | — | — | 80 | * | 8 |
| Cooke (MI) | — | — | — | 2,028 | — | — | — | — | — |
| Croton (MI) | — | — | — | 3,937 | — | — | — | — | — |
| Five Channels (MI) | — | — | — | 1,928 | — | — | — | — | — |
| Foote (MI) | — | — | — | 2,217 | — | — | — | — | — |
| Gaylord (MI) | — | — | 288 | — | — | — | — | — | 2 |
| Hardy (MI) | — | — | — | 9,036 | — | — | — | — | — |
| Hodenpyl (MI) | — | — | — | 3,421 | — | — | — | — | — |
| Karn, D E (MI) | 297,612 | 2,291 | 2 | — | — | — | 129 | 4 | * |
| Loud (MI) | — | — | — | 1,465 | — | — | — | — | — |
| Ludington (MI) | — | — | — | -58,576 | — | — | — | — | — |
| Mio (MI) | — | — | — | 1,179 | — | — | — | — | — |
| Morrow, B E (MI) | — | — | 14 | — | — | — | — | — | * |
| Palisades (MI) | — | — | — | — | 530,995 | — | — | — | — |
| Rogers (MI) | — | — | — | 2,909 | — | — | — | — | — |
| Straits (MI) | — | — | — | — | — | — | — | — | — |
| Thetford (MI) | — | — | -4 | — | — | — | — | — | 1 |

*See footnotes at end of table.*

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) / Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Consumers Power Co** | | | | | | | | | |
| Tippy, C W (MI) | — | — | — | 4,629 | — | — | — | — | — |
| Weadock, J C (MI) | 156,280 | 406 | 567 | — | — | — | 75 | 1 | 6 |
| Webber (MI) | — | — | — | 1,384 | — | — | — | — | — |
| Whiting, J R (MI) | 123,125 | 919 | — | — | — | — | 59 | 2 | — |
| **Cooperative Power Asso** | **675,142** | — | — | — | — | — | **619** | — | — |
| Bonifacius (MN) | — | — | — | — | — | — | — | — | — |
| Coal Creek (ND) | 675,142 | — | — | — | — | — | 619 | — | — |
| **Corn belt Power Coop** | **−148** | — | — | — | — | — | — | — | — |
| Humboldt (IA) | −42 | — | — | — | — | — | — | — | — |
| Wisdom, Earl F (IA) | −106 | — | — | — | — | — | — | — | — |
| **Dairyland Power Coop** | **309,025** | **533** | — | **2,121** | — | — | **179** | **2** | — |
| Alma (WI) | 31,071 | 1 | — | — | — | — | 17 | * | — |
| Flambeau (WI) | — | — | — | 2,121 | — | — | — | — | — |
| Genoa (WI) | 175,044 | — | — | — | — | — | 79 | — | — |
| J P Madgett (WI) | 102,910 | 532 | — | — | — | — | 83 | 2 | — |
| **Dayton Pwr & Lgt Co (The)** | **1,617,024** | **6,582** | **7,154** | — | — | — | **685** | **13** | **80** |
| Frank M Tait (OH) | — | 1,841 | 5,616 | — | — | — | — | 5 | 63 |
| Hutchings (OH) | 18,840 | — | 1,538 | — | — | — | 9 | — | 18 |
| Killen Station (OH) | 379,190 | 882 | — | — | — | — | 159 | 2 | — |
| Monument (OH) | — | — | — | — | — | — | — | — | — |
| Sidney (OH) | — | — | — | — | — | — | — | — | — |
| Stuart, J M (OH) | 1,218,994 | 3,859 | — | — | — | — | 518 | 7 | — |
| Yankee Street (OH) | — | — | — | — | — | — | — | * | * |
| **Delmarva Power & Light Co** | **185,196** | **148,986** | **104,188** | — | — | — | **87** | **253** | **910** |
| Bayview (VA) | — | 580 | — | — | — | — | — | 1 | — |
| Christiana (DE) | — | 82 | — | — | — | — | — | * | — |
| Crisfield (MD) | — | 376 | — | — | — | — | — | 1 | — |
| Delaware City (DE) | — | −4 | — | — | — | — | — | — | — |
| Edge Moor (DE) | 59,256 | 115,762 | 10,682 | — | — | — | 28 | 184 | 194 |
| Hay Road (DE) | — | 9,983 | 93,506 | — | — | — | — | 22 | 716 |
| Indian River (DE) | 125,940 | 2,814 | — | — | — | — | 59 | 6 | — |
| Madison Street (DE) | — | — | — | — | — | — | — | — | — |
| Tasley (VA) | — | 321 | — | — | — | — | — | 1 | — |
| Vienna (MD) | — | 19,084 | — | — | — | — | — | 39 | — |
| West Substation (DE) | — | −12 | — | — | — | — | — | — | — |
| **Denton (City of)** | — | — | **12,343** | **1,225** | — | — | — | — | **163** |
| Lewisdale (TX) | — | — | — | 755 | — | — | — | — | — |
| Roberts (TX) | — | — | — | 470 | — | — | — | — | — |
| Spencer (TX) | — | — | 12,343 | — | — | — | — | — | 163 |
| **Deseret Gen & Trans Coop** | **272,398** | **28** | — | — | — | — | **138** | * | — |
| Bonanza (UT) | 272,398 | 28 | — | — | — | — | 138 | * | — |
| **Detroit (City of)** | — | **1,322** | **18,722** | — | — | — | — | **8** | **194** |
| Mistersky (MI) | — | 1,322 | 18,722 | — | — | — | — | 8 | 194 |
| **Detroit Edison Co (The)** | **3,385,874** | **27,512** | **79,411** | — | **738,564** | — | **1,637** | **58** | **2,588** |
| Beacon Heating (MI) | — | — | 6,161 | — | — | — | — | — | 530 |
| Belle River (MI) | 424,945 | 1,730 | — | — | — | — | 246 | 3 | — |
| Central Storage (MI) | — | — | — | — | — | — | — | — | — |
| Colfax (MI) | — | −36 | — | — | — | — | — | * | — |
| Conners Creek (MI) | — | −6 | — | — | — | — | — | * | — |
| Dayton (MI) | — | −41 | — | — | — | — | — | * | — |
| Enrico Fermi (MI) | — | −2 | — | — | 738,564 | — | — | * | — |
| Greenwood (MI) | — | 21,996 | 51,267 | — | — | — | — | 45 | 630 |
| Hancock (MI) | — | — | 86 | — | — | — | — | — | 2 |
| Harbor Beach (MI) | 17,472 | 324 | — | — | — | — | 8 | 1 | — |
| Marysville (MI) | 1,191 | — | 186 | — | — | — | 3 | — | 11 |
| Monroe (MI) | 1,746,499 | 2,474 | — | — | — | — | 773 | 4 | — |
| Northeast (MI) | — | 40 | −180 | — | — | — | — | * | * |
| Oliver (MI) | — | — | — | — | — | — | — | — | — |
| Placid (MI) | — | −31 | — | — | — | — | — | * | — |
| Putnam (MI) | — | −34 | — | — | — | — | — | * | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Detroit Edison Co (The)** | | | | | | | | | |
| River Rouge (MI) | 209,808 | -33 | 16,924 | — | — | — | 94 | * | 1,362 |
| Slocum (MI) | — | -37 | — | — | — | — | — | * | — |
| St. Clair (MI) | 687,456 | 442 | 4,967 | — | — | — | 369 | 1 | 54 |
| Superior (MI) | — | -17 | — | — | — | — | — | 1 | — |
| Trenton Channel (MI) | 298,503 | 778 | — | — | — | — | 144 | 1 | — |
| Wilmott (MI) | — | -35 | — | — | — | — | — | * | — |
| **Douglas Pub Util Dist #1** | — | — | — | **422,184** | — | — | — | — | — |
| Wells (WA) | — | — | — | 422,184 | — | — | — | — | — |
| **Dover (City of)** | — | **1,901** | **411** | — | — | — | — | **4** | **6** |
| Mckee Run (DE) | — | 1,901 | 411 | — | — | — | — | 4 | 6 |
| Van Sant (DE) | — | — | — | — | — | — | — | * | — |
| **Dover (City of)** | **6,295** | — | **568** | — | — | — | 4 | — | **8** |
| Dover (OH) | 6,295 | — | 568 | — | — | — | 4 | — | 8 |
| **Duke Power Co** | **2,541,767** | **6,604** | **203** | **162,665** | **4,735,062** | — | **930** | **17** | **2** |
| Allen (NC) | 96,098 | 915 | — | — | — | — | 36 | 2 | — |
| Bad Creek (SC) | — | — | — | -22,627 | — | — | — | — | — |
| Bear Creek (NC) | — | — | — | 2,004 | — | — | — | — | — |
| Belews Creek (NC) | 1,207,512 | 467 | — | — | — | — | 435 | 1 | — |
| Bridgewater (NC) | — | — | — | 5,743 | — | — | — | — | — |
| Bryson (NC) | — | — | — | 549 | — | — | — | — | — |
| Buck (NC) | 37,036 | 73 | — | — | — | — | 16 | 2 | — |
| Buzzard Roost (SC) | — | 84 | — | 3,803 | — | — | — | * | — |
| Catawba (NC) | — | — | — | — | 1,569,354 | — | — | — | — |
| Cedar Cliff (NC) | — | — | — | 1,567 | — | — | — | — | — |
| Cedar Creek (SC) | — | — | — | 10,484 | — | — | — | — | — |
| Cliffside (NC) | 162,598 | 675 | — | — | — | — | 64 | 1 | — |
| Cowans Ford (NC) | — | — | — | 17,307 | — | — | — | — | — |
| Dan River (NC) | 14,591 | -28 | — | — | — | — | 7 | 1 | — |
| Dearborn (SC) | — | — | — | 16,706 | — | — | — | — | — |
| Dillsboro (NC) | — | — | — | — | — | — | — | — | — |
| Fishing Creek (SC) | — | — | — | 15,073 | — | — | — | — | — |
| Franklin (NC) | — | — | — | 550 | — | — | — | — | — |
| Gaston Shoals (SC) | — | — | — | 2,796 | — | — | — | — | — |
| Great Falls (SC) | — | — | — | 2,441 | — | — | — | — | — |
| Jocassee (SC) | — | — | — | -10,257 | — | — | — | — | — |
| Keowee (SC) | — | — | — | 1,154 | — | — | — | — | — |
| Lee (SC) | 23,268 | -62 | — | — | — | — | 10 | 1 | — |
| Lincoln (NC) | — | 2,844 | 11 | — | — | — | — | 8 | * |
| Lookout Shoals (NC) | — | — | — | 8,720 | — | — | — | — | — |
| Marshall (NC) | 966,487 | 1,187 | — | — | — | — | 348 | 2 | — |
| Mc Guire (NC) | — | — | — | — | 1,524,159 | — | — | — | — |
| Mission (NC) | — | — | — | — | — | — | — | — | — |
| Mountain Island (NC) | — | — | — | 12,049 | — | — | — | — | — |
| Nantahala (NC) | — | — | — | 21,730 | — | — | — | — | — |
| Oconee (SC) | — | — | — | — | 1,641,549 | — | — | — | — |
| Oxford (NC) | — | — | — | 10,194 | — | — | — | — | — |
| Queens Creek (NC) | — | — | — | 536 | — | — | — | — | — |
| Rhodhiss (NC) | — | — | — | 5,851 | — | — | — | — | — |
| Riverbend (NC) | 34,177 | 449 | 192 | — | — | — | 15 | 1 | 1 |
| Rocky Creek (SC) | — | — | — | 4,132 | — | — | — | — | — |
| Tennessee Creek (NC) | — | — | — | 4,205 | — | — | — | — | — |
| Thorpe (NC) | — | — | — | 1,421 | — | — | — | — | — |
| Tuckasegee (NC) | — | — | — | 396 | — | — | — | — | — |
| Tuxedo (NC) | — | — | — | 2,016 | — | — | — | — | — |
| Wateree (SC) | — | — | — | 23,010 | — | — | — | — | — |
| Wylie (SC) | — | — | — | 15,063 | — | — | — | — | — |
| 99 Islands (SC) | — | — | — | 6,049 | — | — | — | — | — |
| **Duquesne Lgt Co** | **413,510** | **1,475** | **3,704** | — | **821,165** | — | **186** | **2** | **37** |
| Beaver Valley (PA) | — | — | — | — | 821,165 | — | — | — | — |
| Brunot Island (PA) | — | — | — | — | — | — | — | — | — |
| Cheswick (PA) | 271,532 | — | 3,704 | — | — | — | 109 | — | 37 |
| Elrama (PA) | 141,978 | 1,475 | — | — | — | — | 77 | 2 | — |
| Phillips, F (PA) | — | — | — | — | — | — | — | — | — |

*See footnotes at end of table.*

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **East Kentucky Power Coop** | **750,540** | **918** | **569** | — | — | — | **312** | **2** | **6** |
| Cooper (KY) | 151,783 | 235 | — | — | — | — | 61 | * | — |
| Dale (KY) | 94,031 | 205 | — | — | — | — | 44 | * | — |
| Smith (KY) | — | 446 | 569 | — | — | — | — | 1 | 6 |
| Spurlock, H L (KY) | 504,726 | 32 | — | — | — | — | 207 | * | — |
| **El Paso Electric Co** | — | — | **188,827** | — | — | — | — | — | **2,155** |
| Copper (TX) | — | — | 11 | — | — | — | — | — | * |
| Newman (TX) | — | — | 152,888 | — | — | — | — | — | 1,730 |
| Rio Grande (NM) | — | — | 35,928 | — | — | — | — | — | 425 |
| **Electric Energy Inc** | **656,582** | — | **3,203** | — | — | — | **402** | * | **33** |
| Joppa Steam (IL) | 656,582 | — | 3,203 | — | — | — | 402 | * | 33 |
| **Empire District Elec Co** | **149,896** | **153** | **12,267** | **7,854** | — | — | **94** | **1** | **150** |
| Asbury (MO) | 112,431 | 35 | — | — | — | — | 69 | * | — |
| Energy Center (MO) | — | — | 433 | — | — | — | — | — | 8 |
| Ozark Beach (MO) | — | — | — | 7,854 | — | — | — | — | — |
| Riverton (KS) | 37,465 | 118 | 413 | — | — | — | 24 | 1 | 9 |
| State Line (MO) | — | — | 11,421 | — | — | — | — | — | 133 |
| **Eugene (City of)** | — | — | — | **35,034** | — | — | — | — | — |
| Carmen (OR) | — | — | — | 21,998 | — | — | — | — | — |
| Leaburg (OR) | — | — | — | 8,566 | — | — | — | — | — |
| Walterville (OR) | — | — | — | 4,470 | — | — | — | — | — |
| Willamette (OR) | — | — | — | — | — | — | — | — | — |
| **Fayetteville (City of)** | — | **-24** | **-406** | — | — | — | — | * | **2** |
| Pod #2 (NC) | — | -24 | -406 | — | — | — | — | * | 2 |
| **Florida Power & Light Co** | — | **1,556,780** | **1,272,123** | — | **2,101,651** | — | — | **2,483** | **9,371** |
| Cape Canaveral (FL) | — | 214,136 | 11,870 | — | — | — | — | 334 | 169 |
| Cutler (FL) | — | — | — | — | — | — | — | — | — |
| Fort Meyers (FL) | — | 297,701 | — | — | — | — | — | 446 | — |
| Lauderdale (FL) | — | 61 | 554,868 | — | — | — | — | * | 4,083 |
| Manatee (FL) | — | 134,446 | — | — | — | — | — | 236 | — |
| Martin (FL) | — | 15,358 | 568,419 | — | — | — | — | 33 | 3,824 |
| Port Everglades (FL) | — | 280,270 | 15,700 | — | — | — | — | 450 | 218 |
| Putnam (FL) | — | 211 | 89,013 | — | — | — | — | * | 697 |
| Riviera (FL) | — | 275,832 | 18,231 | — | — | — | — | 434 | 205 |
| Sanford (FL) | — | 146,903 | 7,061 | — | — | — | — | 248 | 109 |
| St. Lucie (FL) | — | — | — | — | 1,141,461 | — | — | — | — |
| Turkey Point (FL) | — | 191,862 | 6,961 | — | 960,190 | — | — | 301 | 65 |
| **Florida Power Corporation** | **836,753** | **750,291** | **94,601** | — | **505,445** | — | **325** | **1,144** | **868** |
| Anclote (FL) | — | 463,070 | — | — | — | — | — | 695 | — |
| Avon Park (FL) | — | — | 347 | — | — | — | — | — | 5 |
| Bartow Nth (FL) | — | — | — | — | — | — | — | — | — |
| Bartow Sth (FL) | — | — | — | — | — | — | — | — | — |
| Bartow Sth (FL) | — | — | — | — | — | — | — | — | — |
| Bartow, P L (FL) | — | 274,929 | 1,633 | — | — | — | — | 424 | 25 |
| Bayboro (FL) | — | 784 | — | — | — | — | — | 2 | — |
| Crystal River (FL) | 836,753 | 4,221 | — | — | 505,445 | — | 325 | 7 | — |
| Debary (FL) | — | 622 | 3,904 | — | — | — | — | 2 | 52 |
| Higgins (FL) | — | — | 699 | — | — | — | — | — | 11 |
| Hines Energy (FL) | — | — | — | — | — | — | — | — | — |
| Intercession City (FL) | — | 374 | 6,060 | — | — | — | — | 1 | 65 |
| Port St. Joe (FL) | — | — | — | — | — | — | — | — | — |
| Rio Pinar (FL) | — | 19 | — | — | — | — | — | * | — |
| Suwannee River (FL) | — | 5,504 | — | — | — | — | — | 10 | — |
| Tiger Bay (FL) | — | — | 55,027 | — | — | — | — | — | 459 |
| Turner, G E (FL) | — | 768 | — | — | — | — | — | 2 | — |
| Univ Proj (FL) | — | — | 26,931 | — | — | — | — | — | 252 |
| **Fort Pierce (City of)** | — | **7** | **649** | — | — | — | — | * | **10** |
| King (FL) | — | 7 | 649 | — | — | — | — | * | 10 |
| **Fremont (City of)** | **26,733** | **1** | **449** | — | — | — | **18** | * | **5** |
| Lon Wright (NE) | 26,733 | 1 | 449 | — | — | — | 18 | * | 5 |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Gainesville (City of)** | **71,300** | — | **13,968** | — | — | — | **28** | * | **171** |
| Deerhaven (FL) | 71,300 | — | 13,757 | — | — | — | 28 | — | 166 |
| Kelly, J R (FL) | — | — | 211 | — | — | — | — | * | 5 |
| **Garland Mun Utils (City)** | — | — | **27,056** | — | — | — | — | — | **306** |
| Newman, C E (TX) | — | — | — | — | — | — | — | — | — |
| Olinger, Ray (TX) | — | — | 27,056 | — | — | — | — | — | 306 |
| **Georgia Power Co** | **4,143,842** | **4,027** | **367** | **150,845** | **2,557,430** | — | **1,845** | **12** | **4** |
| Arkwright (GA) | — | -365 | 177 | — | — | — | — | * | 2 |
| Atkinson (GA) | — | -232 | — | — | — | — | — | * | — |
| Barnett Shoals (GA) | — | — | — | 307 | — | — | — | — | — |
| Bartlett Ferry (GA) | — | — | — | 29,277 | — | — | — | — | — |
| Bowen (GA) | 1,495,958 | 485 | — | — | — | — | 576 | 1 | — |
| Burton (GA) | — | — | — | 1,694 | — | — | — | — | — |
| Estatoah (GA) | — | — | — | 3,367 | — | — | — | — | — |
| Flint River (GA) | — | — | — | — | — | — | — | — | — |
| Goat Rock (GA) | — | — | — | 12,027 | — | — | — | — | — |
| Hammond (GA) | 196 | 4 | — | — | — | — | 8 | 1 | — |
| Harllee Branch (GA) | 242,601 | 563 | — | — | — | — | 102 | 1 | — |
| Hatch, Edwin I. (GA) | — | — | — | — | 1,054,645 | — | — | — | — |
| Langdale (GA) | — | — | — | 192 | — | — | — | — | — |
| Lloyd Shoals (GA) | — | — | — | 8,591 | — | — | — | — | — |
| Mcdonough, J (GA) | 266,171 | 174 | — | — | — | — | 101 | * | — |
| Mcmanus (GA) | — | -295 | — | — | — | — | — | * | — |
| Mitchell, W (GA) | 9,029 | 69 | — | — | — | — | 4 | * | — |
| Morgan Falls (GA) | — | — | — | 2,292 | — | — | — | — | — |
| Nacoochee (GA) | — | — | — | 1,029 | — | — | — | — | — |
| North Highlands (GA) | — | — | — | 9,582 | — | — | — | — | — |
| Oliver Dam (GA) | — | — | — | 16,733 | — | — | — | — | — |
| Riverview (GA) | — | — | — | 108 | — | — | — | — | — |
| Robins (GA) | — | 686 | 86 | — | — | — | — | 1 | 1 |
| Scherer (GA) | 1,590,460 | 657 | — | — | — | — | 783 | 1 | — |
| Sinclair Dam (GA) | — | — | — | 15,803 | — | — | — | — | — |
| Tallulah Falls (GA) | — | — | — | 11,560 | — | — | — | — | — |
| Terrora (GA) | — | — | — | 3,401 | — | — | — | — | — |
| Tugalo (GA) | — | — | — | 10,336 | — | — | — | — | — |
| Vogtle (GA) | — | — | — | — | 1,502,785 | — | — | — | — |
| Wallace Dam (GA) | — | — | — | 19,887 | — | — | — | — | — |
| Wansley (GA) | 366,086 | 932 | — | — | — | — | 194 | 2 | — |
| Wilson (GA) | — | 549 | — | — | — | — | — | 2 | — |
| Yates (GA) | 173,341 | 800 | 104 | — | — | — | 78 | 2 | 1 |
| Yonah (GA) | — | — | — | 4,659 | — | — | — | — | — |
| **Glendale (City of)** | — | — | **17,716** | — | — | — | — | — | **220** |
| Grayson (CA) | — | — | 17,716 | — | — | — | — | — | 220 |
| **Golden Valley Elec Assn** | **15,129** | **56,965** | — | — | — | — | **13** | **99** | — |
| Chena (AK) | — | -30 | — | — | — | — | — | * | — |
| Fairbanks (AK) | — | 18 | — | — | — | — | — | * | — |
| Healy (AK) | 15,129 | 71 | — | — | — | — | 13 | * | — |
| North Pole (AK) | — | 56,906 | — | — | — | — | — | 99 | — |
| **Grand Haven (City of)** | **28,358** | **2** | **2** | — | — | — | **15** | * | * |
| Harbor Avenue (MI) | — | 2 | 2 | — | — | — | — | * | * |
| J B Simms (MI) | 28,358 | — | — | — | — | — | 15 | — | — |
| **Grand Island (City of)** | **42,522** | — | — | — | — | — | **27** | — | — |
| Burdick, C W (NE) | — | — | — | — | — | — | — | — | — |
| Platte (NE) | 42,522 | — | — | — | — | — | 27 | — | — |
| **Grand River Dam Authority** | **471,018** | — | **1,439** | **77,154** | — | — | **293** | * | **15** |
| GRDA No 1 (OK) | 471,018 | — | 1,439 | — | — | — | 293 | * | 15 |
| Markham (OK) | — | — | — | 29,712 | — | — | — | — | — |
| Pensacola (OK) | — | — | — | 52,711 | — | — | — | — | — |
| Salina (OK) | — | — | — | -5,269 | — | — | — | — | — |
| **Grant Pub Util Dist #2** | — | — | — | **1,027,477** | — | — | — | — | — |
| Pec Hdwks (WA) | — | — | — | — | — | — | — | — | — |
| Priest Rapids (WA) | — | — | — | 512,569 | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Grant Pub Util Dist #2** | | | | | | | | | |
| Quincy Chut (WA) | — | — | — | — | — | — | — | — | — |
| Wanapum (WA) | — | — | — | 514,908 | — | — | — | — | — |
| **Green Mountain Power Corp** | — | 269 | — | 14,046 | — | — | — | 1 | — |
| Berlin (VT) | — | 237 | — | — | — | — | — | 1 | — |
| Bolton Falls (VT) | — | — | — | 2,810 | — | — | — | — | — |
| Carthusians (VT) | — | — | — | — | — | — | — | — | — |
| Colchester (VT) | — | — | — | — | — | — | — | — | — |
| Essex Junction 19 (VT) | — | 9 | — | 3,788 | — | — | — | * | — |
| Gorge 18 (VT) | — | — | — | 1,708 | — | — | — | — | — |
| Marshfield 6 (VT) | — | — | — | 938 | — | — | — | — | — |
| Middlesex 2 (VT) | — | — | — | 1,678 | — | — | — | — | — |
| Searsburg (VT) | — | — | — | — | — | — | — | — | — |
| Vergennes 9 (VT) | — | 23 | — | 919 | — | — | — | * | — |
| Waterbury 22 (VT) | — | — | — | 1,992 | — | — | — | — | — |
| West Danville 15 (VT) | — | — | — | 213 | — | — | — | — | — |
| **Greenville (City of)** | — | — | — | — | — | — | — | — | — |
| Steam (TX) | — | — | — | — | — | — | — | — | — |
| Steam (TX) | — | — | — | — | — | — | — | — | — |
| **Gulf Power Company** | 369,971 | 276 | 504 | — | — | — | 165 | 1 | 5 |
| Crist (FL) | 230,816 | 145 | 504 | — | — | — | 104 | * | 5 |
| Scholz (FL) | 15,206 | 49 | — | — | — | — | 8 | * | — |
| Smith (FL) | 123,949 | 82 | — | — | — | — | 53 | * | — |
| **Gulf States Utilities Co** | 352,649 | 5 | 1,202,285 | 54,166 | 564,637 | — | 224 | * | 12,577 |
| Lewis Creek (TX) | — | — | 168,021 | — | — | — | — | — | 1,710 |
| Louisiana 1 (LA) | — | — | 68,965 | — | — | — | — | — | 788 |
| Louisiana 2 (LA) | — | — | — | — | — | — | — | — | — |
| Neches (TX) | — | — | — | — | — | — | — | — | — |
| Nelson, R S (LA) | 352,649 | — | 209,313 | — | — | — | 224 | — | 2,248 |
| River Bend (LA) | — | — | — | — | 564,637 | — | — | — | — |
| Sabine (TX) | — | 5 | 539,396 | — | — | — | — | * | 5,399 |
| Toledo Bend (TX) | — | — | — | 54,166 | — | — | — | — | — |
| Willow Glen (LA) | — | — | 216,590 | — | — | — | — | — | 2,432 |
| **GPU Nuclear Corp** | — | — | — | — | 979,061 | — | — | — | — |
| Oyster Creek (NJ) | — | — | — | — | 427,378 | — | — | — | — |
| Three Mile Island (PA) | — | — | — | — | 551,683 | — | — | — | — |
| **Hamilton (City of)** | 22,067 | 7 | 2,192 | 21,616 | — | — | 12 | * | 28 |
| Hamilton (OH) | 22,067 | 7 | 2,192 | — | — | — | 12 | * | 28 |
| Hamilton Hydro (OH) | — | — | — | 401 | — | — | — | — | — |
| Vanceburg Hydro (KY) | — | — | — | 21,215 | — | — | — | — | — |
| **Hastings (City of)** | 41,686 | — | -212 | — | — | — | 29 | — | * |
| Don Henry (NE) | — | — | -21 | — | — | — | — | — | * |
| North Denver (NE) | — | — | -191 | — | — | — | — | — | — |
| Whelan (NE) | 41,686 | — | — | — | — | — | 29 | — | — |
| **Hawaiian Elec Co Inc** | — | 391,986 | — | — | — | — | — | 647 | — |
| Honolulu (HI) | — | 5,751 | — | — | — | — | — | 13 | — |
| Kahe (HI) | — | 295,664 | — | — | — | — | — | 474 | — |
| Oil Storage (CA) | — | — | — | — | — | — | — | — | — |
| Waiau (HI) | — | 90,571 | — | — | — | — | — | 159 | — |
| **Hetch Hetchy Water & Pwr** | — | — | — | 206,144 | — | — | — | — | — |
| Holm, Dion R (CA) | — | — | — | 98,616 | — | — | — | — | — |
| Kirkwood, Robert C (CA) | — | — | — | 67,763 | — | — | — | — | — |
| Moccasin (CA) | — | — | — | 37,801 | — | — | — | — | — |
| Moccasin Low (CA) | — | — | — | 1,964 | — | — | — | — | — |
| **Holland (City of)** | 24,494 | 16 | 15 | — | — | — | 13 | * | * |
| James De Young (MI) | 24,494 | 16 | 15 | — | — | — | 13 | * | * |
| 48 Street (MI) | — | — | — | — | — | — | — | * | — |
| 6Th Street (MI) | — | — | — | — | — | — | — | — | — |
| **Holyoke Wtr Pwr Co** | 19,718 | 420 | — | 24,522 | — | — | 9 | 1 | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Holyoke Wtr Pwr Co** | | | | | | | | | |
| Boatlock (MA) | — | — | — | 1,614 | — | — | — | — | — |
| Chemical (MA) | — | — | — | 227 | — | — | — | — | — |
| Hadley Falls (MA) | — | — | — | 19,799 | — | — | — | — | — |
| Holbrook, Beebe (MA) | — | — | — | 37 | — | — | — | — | — |
| Mt Tom (MA) | 19,718 | 420 | — | — | — | — | 9 | 1 | — |
| Riverside (MA) | — | — | — | 2,745 | — | — | — | — | — |
| Skinner (MA) | — | — | — | 100 | — | — | — | — | — |
| **Homestead (City of)** | **—** | **332** | **2,990** | **—** | **—** | **—** | **—** | **1** | **29** |
| G W Ivey (FL) | — | 332 | 2,990 | — | — | — | — | 1 | 29 |
| **Hoosier Energy Rural** | **720,666** | **670** | **—** | **—** | **—** | **—** | **328** | **1** | **—** |
| Merom (IN) | 599,750 | 529 | — | — | — | — | 274 | 1 | — |
| Ratts (IN) | 120,916 | 141 | — | — | — | — | 55 | * | — |
| **Houston Lighting & Pwr Co** | **1,993,276** | **42** | **973,589** | **—** | **1,680,703** | **—** | **1,419** | * | **9,889** |
| Bertron, Sam (TX) | — | — | 49,668 | — | — | — | — | — | 571 |
| Cedar Bayou (TX) | — | — | 273,110 | — | — | — | — | — | 2,682 |
| Clarke, Hiram (TX) | — | — | –30 | — | — | — | — | — | — |
| Deepwater (TX) | — | — | 18,004 | — | — | — | — | — | 224 |
| Greens Bayou (TX) | — | 42 | 27,372 | — | — | — | — | * | 307 |
| Limestone (TX) | 930,563 | — | 12,185 | — | — | — | 763 | — | 126 |
| Parish, W A (TX) | 1,062,713 | — | 24,743 | — | — | — | 656 | — | 292 |
| Robinson, P H (TX) | — | — | 238,172 | — | — | — | — | — | 2,417 |
| San Jacinto (TX) | — | — | 91,108 | — | — | — | — | — | 1,068 |
| South Texas (TX) | — | — | — | — | 1,680,703 | — | — | — | — |
| Webster (TX) | — | — | 30,587 | — | — | — | — | — | 322 |
| Wharton, T H (TX) | — | — | 208,670 | — | — | — | — | — | 1,880 |
| **Hutchinson (City of)** | **—** | **11** | **119** | **—** | **—** | **—** | **—** | * | **2** |
| Plant No. 1 (MN) | — | 11 | 119 | — | — | — | — | * | 2 |
| Plant No. 2 (MN) | — | — | — | — | — | — | — | — | — |
| **Idaho Power Co** | **—** | **54** | **—** | **1,019,402** | **—** | **—** | **—** | * | **—** |
| American Falls (ID) | — | — | — | 37,877 | — | — | — | — | — |
| Bliss (ID) | — | — | — | 34,255 | — | — | — | — | — |
| Brownlee (ID) | — | — | — | 311,674 | — | — | — | — | — |
| Cascade (ID) | — | — | — | 3,489 | — | — | — | — | — |
| Clear Lake (ID) | — | — | — | 1,236 | — | — | — | — | — |
| Hells Canyon (OR) | — | — | — | 277,680 | — | — | — | — | — |
| Lower Malad (ID) | — | — | — | 9,074 | — | — | — | — | — |
| Lower Salmon (ID) | — | — | — | 37,272 | — | — | — | — | — |
| Milner (ID) | — | — | — | 39,875 | — | — | — | — | — |
| Oxbow (OR) | — | — | — | 122,441 | — | — | — | — | — |
| Salmon (ID) | — | 54 | — | — | — | — | — | * | — |
| Shoshone Falls (ID) | — | — | — | 9,093 | — | — | — | — | — |
| Strike, C J (ID) | — | — | — | 59,979 | — | — | — | — | — |
| Swan Falls (ID) | — | — | — | 7,487 | — | — | — | — | — |
| Thousand Springs (ID) | — | — | — | 4,765 | — | — | — | — | — |
| Twin Falls (ID) | — | — | — | 35,096 | — | — | — | — | — |
| Upper Malad (ID) | — | — | — | 5,107 | — | — | — | — | — |
| Upper Salmon (ID) | — | — | — | 11,854 | — | — | — | — | — |
| Upper Salmon (ID) | — | — | — | 11,148 | — | — | — | — | — |
| **Illinois Power Co** | **1,228,270** | **3,317** | **2,610** | **—** | **–7,572** | **—** | **590** | **4** | **28** |
| Baldwin (IL) | 829,885 | 701 | — | — | — | — | 397 | 1 | — |
| Clinton (IL) | — | — | — | — | –7,572 | — | — | — | — |
| Havana (IL) | 186,400 | 1,330 | 271 | — | — | — | 89 | 2 | 2 |
| Hennepin (IL) | 47,088 | 1,268 | 524 | — | — | — | 25 | — | 6 |
| Oglesby (IL) | — | — | — | — | — | — | — | — | — |
| Stallings (IL) | — | — | –27 | — | — | — | — | — | — |
| Vermilion (IL) | 57,922 | 18 | 820 | — | — | — | 32 | * | 9 |
| Wood River (IL) | 106,975 | — | 1,022 | — | — | — | 47 | — | 10 |
| **Imperial Irrigation Dist** | **—** | **25** | **2,057** | **17,255** | **—** | **—** | **—** | * | **30** |
| Brawley (CA) | — | — | — | — | — | — | — | — | — |
| Coachella (CA) | — | — | 50 | — | — | — | — | — | 1 |
| Double Weir (CA) | — | — | — | — | — | — | — | — | — |
| Drop No 1 (CA) | — | — | — | 1,452 | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Imperial Irrigation Dist** | | | | | | | | | |
| Drop No. 5 (CA) | — | — | — | 891 | — | — | — | — | — |
| Drop 2 (CA) | — | — | — | 3,258 | — | — | — | — | — |
| Drop 3 (CA) | — | — | — | 2,769 | — | — | — | — | — |
| Drop 4 (CA) | — | — | — | 5,964 | — | — | — | — | — |
| E Highline (CA) | — | — | — | 389 | — | — | — | — | — |
| El Centro (CA) | — | — | 1,952 | — | — | — | — | — | 28 |
| Pilot Knob (CA) | — | — | — | 2,462 | — | — | — | — | — |
| Rockwood (CA) | — | 25 | 55 | — | — | — | — | * | 1 |
| Turnip (CA) | — | — | — | 70 | — | — | — | — | — |
| **Independence (City of)** | **13,842** | **−157** | **161** | **—** | **—** | **—** | **9** | **—** | **2** |
| Blue Valley (MO) | 13,842 | — | 161 | — | — | — | 9 | — | 2 |
| Jackson Square (MO) | — | — | — | — | — | — | — | — | — |
| Missouri City (MO) | — | −157 | — | — | — | — | — | — | — |
| Station H (MO) | — | — | — | — | — | — | — | — | — |
| Station I (MO) | — | — | — | — | — | — | — | — | — |
| **Indiana Michigan Power Co** | **1,723,569** | **6,208** | **—** | **11,303** | **—** | **—** | **882** | **11** | **—** |
| Berrien Springs (MI) | — | — | — | 3,693 | — | — | — | — | — |
| Buchanan (MI) | — | — | — | 1,660 | — | — | — | — | — |
| Constantine (MI) | — | — | — | 470 | — | — | — | — | — |
| Cook, Donald C. (MI) | — | — | — | — | — | — | — | — | — |
| Elkhart (IN) | — | — | — | 1,823 | — | — | — | — | — |
| Fourth Street (IN) | — | — | — | — | — | — | — | — | — |
| Mottville (MI) | — | — | — | 833 | — | — | — | — | — |
| Rockport (IN) | 1,335,207 | 5,613 | — | — | — | — | 736 | 10 | — |
| Tanners Creek (IN) | 388,362 | 595 | — | — | — | — | 146 | 1 | — |
| Twin Branch (IN) | — | — | — | 2,824 | — | — | — | — | — |
| **Indiana Mun Power Agency** | **—** | **6** | **52** | **—** | **—** | **—** | **—** | ***** | **1** |
| Anderson (IN) | — | 6 | 52 | — | — | — | — | * | 1 |
| **Indiana-Kentucky El Corp** | **706,275** | **451** | **—** | **—** | **—** | **—** | **345** | **1** | **—** |
| Clifty Creek (IN) | 706,275 | 451 | — | — | — | — | 345 | 1 | — |
| **Indianapolis Pwr & Lgt Co** | **1,213,547** | **1,575** | **2,648** | **—** | **—** | **—** | **584** | **3** | **19** |
| Perry K (IN) | −1,086 | — | — | — | — | — | — | — | — |
| Petersburg (IN) | 868,122 | 618 | — | — | — | — | 413 | 1 | — |
| Pritchard, H T (IN) | 77,077 | 480 | — | — | — | — | 44 | 1 | — |
| Stout, Elmer W (IN) | 269,434 | 477 | 2,648 | — | — | — | 127 | 1 | 19 |
| **International Bound & Water Comm** | **—** | **—** | **—** | **6,371** | **—** | **—** | **—** | **—** | **—** |
| Amistad (TX) | — | — | — | 3,699 | — | — | — | — | — |
| Falcon (TX) | — | — | — | 2,672 | — | — | — | — | — |
| **Interstate Power Co** | **182,754** | **402** | **7,948** | **—** | **—** | **—** | **118** | **1** | **99** |
| Dubuque (IA) | 23,802 | −7 | 2,387 | — | — | — | 14 | * | 31 |
| Fox Lake (MN) | — | −23 | 5,317 | — | — | — | — | * | 65 |
| Hills (MN) | — | −9 | — | — | — | — | — | — | — |
| Kapp, M L (IA) | 58,216 | — | 244 | — | — | — | 32 | — | 3 |
| Lansing (IA) | 100,736 | 434 | — | — | — | — | 71 | 1 | — |
| Lime Creek (IA) | — | −49 | — | — | — | — | — | — | — |
| Montgomery (MN) | — | 60 | — | — | — | — | — | * | — |
| New Albin (IA) | — | −4 | — | — | — | — | — | — | — |
| Rushford (MN) | — | — | — | — | — | — | — | — | — |
| **IES Utilities Co** | **617,493** | **164** | **9,552** | **559** | **355,818** | **1,535** | **393** | **1** | **127** |
| Ames (IA) | — | — | — | — | — | — | — | — | — |
| Anamosa (IA) | — | — | — | 96 | — | — | — | — | — |
| Arnold, Duane (IA) | — | — | — | — | 355,818 | — | — | — | — |
| Burlington (IA) | 50,786 | — | 281 | — | — | — | 32 | — | 3 |
| Centerville (IA) | — | −81 | — | — | — | — | — | * | — |
| Grinnell (IA) | — | — | −39 | — | — | — | — | — | — |
| Iowa Falls (IA) | — | — | — | 138 | — | — | — | — | — |
| Maquoketa (IA) | — | — | — | 325 | — | — | — | — | — |
| Marshalltown (IA) | — | 206 | — | — | — | — | — | 1 | — |
| Ottumwa (IA) | 407,184 | 32 | — | — | — | — | 256 | * | — |
| Prairie Creek (IA) | 68,517 | 7 | 3,208 | — | — | — | 43 | * | 34 |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **IES Utilities Co** | | | | | | | | | |
| Sutherland (IA) | 81,581 | — | 3,719 | — | — | — | 52 | — | 43 |
| 6Th Street (IA) | 9,425 | — | 2,383 | — | — | 1,535 | 9 | — | 47 |
| **Jacksonville (City of)** | **550,761** | **408,613** | **22,537** | **—** | **—** | **—** | **225** | **450** | **215** |
| Kennedy, J D (FL) | — | 11,421 | 313 | — | — | — | — | 19 | 3 |
| Northside (FL) | — | 243,221 | 21,638 | — | — | — | — | 388 | 206 |
| Southside (FL) | — | 22,923 | 586 | — | — | — | — | 38 | 6 |
| St. Johns River | 550,761 | 131,048 | — | — | — | — | 225 | 4 | — |
| **Jamestown (City of)** | **13,354** | **4** | **—** | **—** | **—** | **—** | **8** | * | **—** |
| Carlson, S A (NY) | 13,354 | 4 | — | — | — | — | 8 | * | — |
| **Jersey Central Power&Light Co** | **—** | **2,705** | **9,056** | **-10,937** | **—** | **—** | **—** | **8** | **94** |
| Forked River (NJ) | — | 70 | 930 | — | — | — | — | 1 | 6 |
| Gardner, Glen (NJ) | — | — | 563 | — | — | — | — | — | 8 |
| Gilbert (NJ) | — | 2,831 | 7,698 | — | — | — | — | 5 | 73 |
| Sayreville (NJ) | — | -425 | -135 | — | — | — | — | 1 | 8 |
| Werner (NJ) | — | 229 | — | — | — | — | — | 1 | — |
| Yards Creek (NJ) | — | — | — | -10,937 | — | — | — | — | — |
| **Kansas City (City of)** | **188,840** | **155** | **2,510** | **—** | **—** | **—** | **123** | * | **40** |
| Kaw (KS) | — | — | — | — | — | — | — | — | — |
| Nearman Creek (KS) | 118,195 | 144 | — | — | — | — | 81 | * | — |
| Quindaro (KS) | 70,645 | 11 | 2,510 | — | — | — | 42 | * | 40 |
| **Kansas City Pwr & Lgt Co** | **1,039,217** | **17,943** | **—** | **—** | **—** | **—** | **670** | **35** | **—** |
| Grand Ave (MO) | — | — | — | — | — | — | — | — | — |
| Hawthorn (MO) | 83,806 | — | — | — | — | — | 52 | — | — |
| Iatan (MO) | 235,237 | 1,508 | — | — | — | — | 142 | 3 | — |
| La Cygne (KS) | 561,255 | 4,527 | — | — | — | — | 373 | 9 | — |
| Montrose (MO) | 158,919 | 1,130 | — | — | — | — | 103 | 2 | — |
| Northeast (MO) | — | 10,778 | — | — | — | — | — | 22 | — |
| **Kauai Electric Company** | **—** | **27,135** | **—** | **—** | **—** | **—** | **—** | **49** | **—** |
| Port Allen (HI) | — | 27,135 | — | — | — | — | — | 49 | — |
| **Kentucky Power Co** | **647,682** | **1,387** | **—** | **—** | **—** | **—** | **251** | **2** | **—** |
| Big Sandy (KY) | 647,682 | 1,387 | — | — | — | — | 251 | 2 | — |
| **Kentucky Utilities Co** | **1,452,348** | **840** | **686** | **9,939** | **—** | **—** | **619** | **3** | **15** |
| Brown, E W (KY) | 323,083 | 23 | 733 | — | — | — | 136 | 1 | 15 |
| Dix Dam (KY) | — | — | — | 9,223 | — | — | — | — | — |
| Ghent (KY) | 1,068,995 | 797 | — | — | — | — | 453 | 2 | — |
| Green River (KY) | 60,373 | 113 | — | — | — | — | 31 | * | — |
| Haefling (KY) | — | — | -47 | — | — | — | — | — | — |
| Lock 7 (KY) | — | — | — | 716 | — | — | — | — | — |
| Pineville (KY) | -3 | — | — | — | — | — | — | — | — |
| Tyrone (KY) | -100 | -93 | — | — | — | — | — | * | — |
| **KeySpan Energy** | **—** | **563,179** | **172,565** | **—** | **—** | **—** | **—** | **910** | **1,882** |
| Barrett, E F (NY) | — | 8,572 | 89,632 | — | — | — | — | 15 | 959 |
| Brookhaven (NY) | — | 1,358 | — | — | — | — | — | 3 | — |
| East Hampton (NY) | — | 71 | — | — | — | — | — | * | — |
| Far Rockway (NY) | — | — | 16,017 | — | — | — | — | — | 152 |
| Glenwood (NY) | — | -15 | 20,130 | — | — | — | — | * | 250 |
| Holbrook (NY) | — | 860 | — | — | — | — | — | 1 | — |
| Montauk (NY) | — | 40 | — | — | — | — | — | * | — |
| Northport (NY) | — | 405,977 | 42,854 | — | — | — | — | 647 | 480 |
| Port Jefferson (NY) | — | 146,132 | 3,932 | — | — | — | — | 243 | 40 |
| Shoreham (NY) | — | -8 | — | — | — | — | — | — | — |
| Southhampton (NY) | — | 28 | — | — | — | — | — | * | — |
| Southold (NY) | — | 167 | — | — | — | — | — | 1 | — |
| West Babylon (NY) | — | -3 | — | — | — | — | — | * | — |
| **Kings River Conserv Dist** | **—** | **—** | **—** | **174** | **—** | **—** | **—** | **—** | **—** |
| Pine Flat (CA) | — | — | — | 174 | — | — | — | — | — |
| **Kissimmee (City of)** | **—** | **-2** | **65,816** | **—** | **—** | **—** | **—** | * | **512** |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Kissimmee (City of)** | | | | | | | | | |
| Cane Island (FL) | — | — | 65,975 | — | — | — | — | — | 512 |
| Kissimmee (FL) | — | -2 | -159 | — | — | — | — | * | * |
| **KG&E - Western Resources** | — | 1,651 | 20,477 | — | — | — | — | 5 | 281 |
| Evans, Gordon (KS) | — | — | 17,881 | — | — | — | — | — | 240 |
| Gill, Murray (KS) | — | 1,651 | 2,596 | — | — | — | — | 5 | 41 |
| Neosho (KS) | — | — | — | — | — | — | — | — | — |
| **KPL - Western Resources** | 1,170,580 | 854 | 4,709 | — | — | — | 730 | 2 | 62 |
| Abilene (KS) | — | — | -55 | — | — | — | — | — | — |
| Hutchinson (KS) | — | — | -201 | — | — | — | — | — | 5 |
| Jeffrey (KS) | 948,395 | 854 | — | — | — | — | 598 | 2 | — |
| Lawrence (KS) | 154,564 | — | 3,778 | — | — | — | 92 | — | 42 |
| Tecumseh (KS) | 67,621 | — | 1,187 | — | — | — | 39 | — | 14 |
| **Lafayette Util Sys (City)** | — | — | 53,525 | — | — | — | — | — | 490 |
| Doc Bonin (LA) | — | — | 53,532 | — | — | — | — | — | 490 |
| Rodemacher (LA) | — | — | -7 | — | — | — | — | — | — |
| **Lake Worth (City of)** | — | -14 | 10,216 | — | — | — | — | * | 124 |
| Smith, Tom G (FL) | — | -14 | 10,216 | — | — | — | — | * | 124 |
| **Lakeland (City of)** | 148,746 | 19,914 | 30,798 | — | — | — | 60 | — | 312 |
| Larsen Memorial (FL) | — | — | 19,303 | — | — | — | — | — | 185 |
| Mcintosh, C D (FL) | 148,746 | 19,914 | 11,495 | — | — | — | 60 | — | 127 |
| **Lansing (City of)** | 149,335 | 511 | — | 313 | — | — | 68 | 1 | — |
| Eckert Station (MI) | 70,103 | 422 | — | — | — | — | 37 | 1 | — |
| Erickson (MI) | 79,232 | 89 | — | — | — | — | 31 | * | — |
| Moores Park (MI) | — | — | — | 313 | — | — | — | — | — |
| **Lincoln (City of)** | — | — | — | — | — | — | — | — | — |
| Lincoln J Street (NE) | — | — | — | — | — | — | — | — | — |
| Rokeby (NE) | — | — | — | — | — | — | — | — | — |
| **Logansport (City of)** | 18,310 | — | 15 | — | — | — | 10 | — | * |
| Logansport (IN) | 18,310 | — | 15 | — | — | — | 10 | — | * |
| **Los Angeles (City of)** | 878,143 | 286 | 154,288 | 4,078 | — | 11,089 | 360 | * | 1,684 |
| Big Pine Creek (CA) | — | — | — | 361 | — | — | — | — | — |
| Castaic (CA) | — | — | — | -20,898 | — | — | — | — | — |
| Control Gorge (CA) | — | — | — | 8 | — | — | — | — | — |
| Cottonwood (CA) | — | — | — | 259 | — | — | — | — | — |
| Division Creek (CA) | — | — | — | 432 | — | — | — | — | — |
| Foothill (CA) | — | — | — | 1,278 | — | — | — | — | — |
| Franklin Canyon (CA) | — | — | — | 841 | — | — | — | — | — |
| Haiwee (CA) | — | — | — | -6 | — | — | — | — | — |
| Harbor (CA) | — | — | -647 | — | — | — | — | — | — |
| Haynes (CA) | — | — | 84,546 | — | — | — | — | — | 920 |
| Intermountain (UT) | 878,143 | 286 | — | — | — | — | 360 | * | — |
| Middle Gorge (CA) | — | — | — | -20 | — | — | — | — | — |
| Pleasant Valley (CA) | — | — | — | -10 | — | — | — | — | — |
| San Fernando (CA) | — | — | — | 2,602 | — | — | — | — | — |
| San Francisquito 1 (CA) | — | — | — | 12,839 | — | — | — | — | — |
| San Francisquito 2 (CA) | — | — | — | 6,175 | — | — | — | — | — |
| Sawtelle (CA) | — | — | — | 220 | — | — | — | — | — |
| Scattergood (CA) | — | — | 70,720 | — | — | 11,089 | — | — | 764 |
| Upper Gorge (CA) | — | — | — | -3 | — | — | — | — | — |
| Valley (CA) | — | — | -331 | — | — | — | — | — | — |
| **Louisiana Pwr & Light Co** | — | 1,502 | 595,185 | — | 408,791 | — | — | 5 | 6,435 |
| Buras (LA) | — | — | 6 | — | — | — | — | — | * |
| Litle Gypsy (LA) | — | — | 74,623 | — | — | — | — | — | 910 |
| Monroe (LA) | — | — | — | — | — | — | — | — | — |
| Nine Mile Point (LA) | — | — | 343,806 | — | — | — | — | — | 3,443 |
| Sterlington (LA) | — | — | 24,225 | — | — | — | — | — | 269 |
| Thibodaux (LA) | — | — | — | — | — | — | — | — | — |
| Waterford (LA) | — | — | — | — | 408,791 | — | — | — | — |
| Waterford (LA) | — | 1,502 | 152,525 | — | — | — | — | 5 | 1,812 |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Louisville Gas & Elec Co** | **890,017** | **757** | **5,766** | **15,304** | **—** | **—** | **411** | **1** | **60** |
| Cane Run (KY) | 279,501 | — | 2,591 | — | — | — | 126 | — | 26 |
| Mill Creek (KY) | 370,220 | 139 | 3,175 | — | — | — | 176 | * | 34 |
| Ohio Falls (KY) | — | — | — | 15,304 | — | — | — | — | — |
| Paddys Run (KY) | — | — | — | — | — | — | — | — | — |
| Trimble County (KY) | 240,296 | 618 | — | — | — | — | 110 | 1 | — |
| Waterside (KY) | — | — | — | — | — | — | — | — | — |
| Zorn (KY) | — | — | — | — | — | — | — | — | — |
| **Lower Colorado River Auth** | **579,169** | **859** | **199,218** | **5,534** | **—** | **—** | **362** | **2** | **2,106** |
| Austin (TX) | — | — | — | — | — | — | — | — | — |
| Buchanan (TX) | — | — | — | 40 | — | — | — | — | — |
| Granite Shoals (TX) | — | — | — | 857 | — | — | — | — | — |
| Inks (TX) | — | — | — | 40 | — | — | — | — | — |
| Mansfield (TX) | — | — | — | 4,028 | — | — | — | — | — |
| Marble Falls (TX) | — | — | — | 569 | — | — | — | — | — |
| Sam K Seymour,jr (TX) | 579,169 | 859 | — | — | — | — | 362 | 2 | — |
| Sim Gideon (TX) | — | — | 108,048 | — | — | — | — | — | 1,138 |
| T. C. Ferguson (TX) | — | — | 91,170 | — | — | — | — | — | 968 |
| **Lubbock (City of)** | **—** | **—** | **30,545** | **—** | **—** | **—** | **—** | **—** | **362** |
| Holly Ave (TX) | — | — | 18,417 | — | — | — | — | — | 228 |
| LP&L Co GEN | — | — | 12,128 | — | — | — | — | — | 133 |
| Plant 2 (TX) | — | — | — | — | — | — | — | — | — |
| **Madison Gas & Elec Co** | **21,974** | **9** | **10,368** | **—** | **—** | **92** | **14** | ***** | **156** |
| Blount Street (WI) | 21,974 | — | 8,237 | — | — | 92 | 14 | — | 120 |
| Fitchburg (WI) | — | 9 | 1,799 | — | — | — | — | * | 28 |
| Nine Springs (WI) | — | — | -25 | — | — | — | — | — | — |
| Sycamore (WI) | — | — | 357 | — | — | — | — | — | 8 |
| **Manitowoc (City of)** | **13,772** | **6,407** | **35** | **—** | **—** | **—** | **7** | ***** | ***** |
| Manitowoc (WI) | 13,772 | 6,407 | 35 | — | — | — | 7 | * | * |
| **Marquette (City of)** | **20,628** | **6** | **—** | **1,568** | **—** | **—** | **15** | ***** | **—** |
| Plant Four (MI) | — | — | — | — | — | — | — | — | — |
| Plant Two (MI) | — | — | — | 1,251 | — | — | — | — | — |
| Russell, Frank J (MI) | — | — | — | 317 | — | — | — | — | — |
| Shiras (MI) | 20,628 | 6 | — | — | — | — | 15 | * | — |
| **Marshall (City of)** | **1,047** | **8** | **242** | **—** | **—** | **—** | **1** | ***** | **6** |
| Marshall (MO) | 1,047 | 8 | 242 | — | — | — | 1 | * | 6 |
| **Mass Mun Wholesale Elec** | **—** | **8,506** | **4,276** | **—** | **—** | **—** | **—** | **14** | **41** |
| Stonybrook (MA) | — | 8,506 | 4,276 | — | — | — | — | 14 | 41 |
| **Maui Electric Co Ltd** | **—** | **79,353** | **—** | **—** | **—** | **—** | **—** | **133** | **—** |
| Cook (HI) | — | 2,913 | — | — | — | — | — | 5 | — |
| Kahului (HI) | — | 14,610 | — | — | — | — | — | 31 | — |
| Lanai City (HI) | — | — | — | — | — | — | — | — | — |
| Maalaea (HI) | — | 59,696 | — | — | — | — | — | 94 | — |
| Miki Basin (HI) | — | 2,134 | — | — | — | — | — | 4 | — |
| **Mcpherson (City of)** | **—** | **461** | **1,587** | **—** | **—** | **—** | **—** | **1** | **25** |
| McPherson 3 (KS) | — | 461 | 1,198 | — | — | — | — | 1 | 19 |
| Plant No. 2 (KS) | — | — | 389 | — | — | — | — | — | 6 |
| **Medina Electric Coop Inc** | **—** | **—** | **142** | **—** | **—** | **—** | **—** | **—** | **4** |
| Pearsall (TX) | — | — | 142 | — | — | — | — | — | 4 |
| **Merced Irrigation Dist** | **—** | **—** | **—** | **33,671** | **—** | **—** | **—** | **—** | **—** |
| Canal Creek (CA) | — | — | — | — | — | — | — | — | — |
| Exchequer (CA) | — | — | — | 30,080 | — | — | — | — | — |
| Fairfield (CA) | — | — | — | — | — | — | — | — | — |
| Mcswain (CA) | — | — | — | 3,591 | — | — | — | — | — |
| Parker (CA) | — | — | — | — | — | — | — | — | — |
| **Metropolitan Edison Co** | **234,723** | **2,187** | **954** | **13,477** | **—** | **—** | **101** | **5** | **14** |
| Hamilton (PA) | — | 129 | — | — | — | — | — | * | — |
| Hunterstown (PA) | — | — | 444 | — | — | — | — | — | 7 |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Metropolitan Edison Co** | | | | | | | | | |
| Mountain (PA) | — | 128 | 349 | — | — | — | — | * | 6 |
| Orrtanna (PA) | — | 80 | — | — | — | — | — | * | — |
| Portland (PA) | 130,284 | 1,393 | 161 | — | — | — | 58 | 3 | 1 |
| Shawnee (PA) | — | 37 | — | — | — | — | — | * | — |
| Titus (PA) | 104,439 | 195 | — | — | — | — | 43 | * | — |
| Tolna (PA) | — | 225 | — | — | — | — | — | 1 | — |
| Yorkhaven (PA) | — | — | — | 13,477 | — | — | — | — | — |
| **Michigan So Cent Pwr Agen** | **21,783** | **432** | **—** | **—** | **—** | **—** | **12** | **1** | **—** |
| Endicott (MI) | 21,783 | 432 | — | — | — | — | 12 | 1 | — |
| **MidAmerican Energy** | **1,426,337** | **–75** | **1,725** | **1,348** | **—** | **—** | **892** | **1** | **20** |
| Coralville (IA) | — | –40 | — | — | — | — | — | — | — |
| Council Bluffs (IA) | 206,900 | 177 | 240 | — | — | — | 139 | * | 3 |
| Electrifarm (IA) | — | –99 | — | — | — | — | — | — | — |
| George Neal South (IA) | 351,441 | 147 | — | — | — | — | 214 | * | — |
| Louisa (IA) | 370,098 | 1 | 226 | — | — | — | 233 | * | 2 |
| Moline (IL) | — | –40 | — | 1,348 | — | — | — | — | — |
| Neal, George (IA) | 478,105 | — | 640 | — | — | — | 293 | — | 7 |
| Parr (IA) | — | — | –43 | — | — | — | — | — | * |
| Pleasant Hill (IA) | — | –171 | — | — | — | — | — | — | — |
| River Hills (IA) | — | — | –66 | — | — | — | — | — | 1 |
| Riverside (IA) | 19,793 | — | 728 | — | — | — | 13 | — | 8 |
| Sycamore (IA) | — | –50 | — | — | — | — | — | — | — |
| **Minnesota Power Inc** | **526,479** | **1,208** | **—** | **30,460** | **—** | **—** | **323** | **2** | **—** |
| Blanchard (MN) | — | — | — | 7,372 | — | — | — | — | — |
| Boswell (MN) | 476,826 | 1,159 | — | — | — | — | 291 | 2 | — |
| Fond Du Lac (MN) | — | — | — | 2,768 | — | — | — | — | — |
| Hibbard, M L (MN) | — | — | — | — | — | — | — | — | — |
| Knife Falls (MN) | — | — | — | 492 | — | — | — | — | — |
| Laskin (MN) | 49,653 | 49 | — | — | — | — | 33 | * | — |
| Little Falls (MN) | — | — | — | 2,925 | — | — | — | — | — |
| Pillager (MN) | — | — | — | 840 | — | — | — | — | — |
| Prairie River (MN) | — | — | — | 77 | — | — | — | — | — |
| Scanlon (MN) | — | — | — | 502 | — | — | — | — | — |
| Sylvan (MN) | — | — | — | 900 | — | — | — | — | — |
| Thompson (MN) | — | — | — | 13,493 | — | — | — | — | — |
| Winton (MN) | — | — | — | 1,091 | — | — | — | — | — |
| **Minnkota Power Coop Inc** | **367,985** | **1,564** | **—** | **—** | **—** | **—** | **318** | **3** | **—** |
| Grand Forks (ND) | — | — | — | — | — | — | — | — | — |
| Harwood (ND) | — | — | — | — | — | — | — | — | — |
| Young, Milton R (ND) | 367,985 | 1,564 | — | — | — | — | 318 | 3 | — |
| **Mississippi Power Co** | **637,522** | **755** | **98,874** | **—** | **—** | **—** | **299** | **1** | **2,289** |
| Daniel, Victor J Jr. (MS) | 277,131 | 755 | — | — | — | — | 139 | 1 | — |
| Eaton (MS) | — | — | –97 | — | — | — | — | — | — |
| Standard Oil (MS) | — | — | 86,862 | — | — | — | — | — | 2,172 |
| Sweatt (MS) | — | — | 40 | — | — | — | — | — | 2 |
| Watson (MS) | 360,391 | — | 12,069 | — | — | — | 159 | — | 116 |
| **Mississippi Pwr & Lgt Co** | **—** | **543,686** | **243,614** | **—** | **—** | **—** | **—** | **882** | **1,830** |
| Andrus (MS) | — | 265,416 | — | — | — | — | — | 409 | — |
| Brown, Rex (MS) | — | — | 14,188 | — | — | — | — | — | 169 |
| Delta (MS) | — | — | 4,825 | — | — | — | — | — | 65 |
| Natchez (MS) | — | — | — | — | — | — | — | — | — |
| Wilson, B (MS) | — | 278,270 | 224,601 | — | — | — | — | 473 | 1,596 |
| **Missouri Basin Mun Pwr Agency** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** |
| Watertown (SD) | — | — | — | — | — | — | — | — | — |
| **Modesto Irrigation Dist** | **—** | **–40** | **–156** | **1,604** | **—** | **—** | **—** | ***** | **—** |
| McClure (CA) | — | –40 | — | — | — | — | — | * | — |
| New Hogan (CA) | — | — | — | 1,606 | — | — | — | — | — |
| Stone Drop (CA) | — | — | — | –2 | — | — | — | — | — |
| Woodland (CA) | — | — | –156 | — | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Monongahela Power Co** | **2,510,633** | **1,437** | **2,398** | — | — | — | **997** | **2** | **24** |
| Albright (WV) | 64,993 | 321 | — | — | — | — | 28 | 1 | — |
| Fort Martin (WV) | 573,048 | 1,089 | — | — | — | — | 209 | 2 | — |
| Harrison (WV) | 1,152,152 | — | 1,383 | — | — | — | 453 | — | 14 |
| Pleasants (WV) | 625,407 | — | 862 | — | — | — | 268 | — | 9 |
| Rivesville (WV) | 3,343 | 27 | — | — | — | — | 2 | * | — |
| Willow Island (WV) | 91,690 | — | 153 | — | — | — | 37 | — | 2 |
| **Montana Dakota Utils Co** | **281,591** | **401** | **56** | — | — | — | **243** | **1** | **1** |
| Coyote (ND) | 216,401 | 401 | — | — | — | — | 180 | 1 | — |
| Glendive (MT) | — | — | 57 | — | — | — | — | — | 1 |
| Heskett (ND) | 39,380 | — | — | — | — | — | 38 | — | — |
| Lewis & Clark (MT) | 25,810 | — | — | — | — | — | 25 | — | — |
| Miles City (MT) | — | — | 8 | — | — | — | — | — | * |
| Williston (ND) | — | — | –9 | — | — | — | — | — | — |
| **Montana Power Co (The)** | **1,294,212** | **1,142** | **368** | **260,466** | — | — | **804** | **2** | **4** |
| Black Eagle (MT) | — | — | — | 9,176 | — | — | — | — | — |
| Cochrane (MT) | — | — | — | 26,211 | — | — | — | — | — |
| Colstrip (MT) | 1,216,675 | 1,142 | — | — | — | — | 753 | 2 | — |
| Corette, J E (MT) | 77,537 | — | 368 | — | — | — | 51 | — | 4 |
| Hauser Lake (MT) | — | — | — | 10,771 | — | — | — | — | — |
| Holter (MT) | — | — | — | 30,749 | — | — | — | — | — |
| Kerr (MT) | — | — | — | 61,370 | — | — | — | — | — |
| Lake Diesel (MT) | — | — | — | — | — | — | — | — | — |
| Madison (MT) | — | — | — | 5,114 | — | — | — | — | — |
| Milltown (MT) | — | — | — | 1,261 | — | — | — | — | — |
| Morony (MT) | — | — | — | 28,250 | — | — | — | — | — |
| Mystic Lake (MT) | — | — | — | 1,916 | — | — | — | — | — |
| Rainbow (MT) | — | — | — | 20,677 | — | — | — | — | — |
| Ryan (MT) | — | — | — | 33,880 | — | — | — | — | — |
| Thompson Falls (MT) | — | — | — | 31,091 | — | — | — | — | — |
| Yellowstone (MT) | — | — | — | — | — | — | — | — | — |
| **Montaup Electric Company** | **25,428** | **8,441** | — | — | — | — | **10** | **15** | — |
| Somerset (MA) | 25,428 | 8,441 | — | — | — | — | 10 | 15 | — |
| **Morgan (City of)** | — | — | **5,088** | — | — | — | — | — | **72** |
| Morgan City (LA) | — | — | 5,088 | — | — | — | — | — | 72 |
| **Muscatine (City of)** | **83,496** | **1** | — | — | — | — | **57** | * | — |
| Muscatine (IA) | 83,496 | 1 | — | — | — | — | 57 | * | — |
| **N Y State Elec & Gas Corp** | **734,927** | **676** | — | **26,181** | — | — | **295** | **1** | — |
| Cadyville (NY) | — | — | — | 2,108 | — | — | — | — | — |
| Goudey (NY) | 45,245 | 73 | — | — | — | — | 18 | * | — |
| Greenidge (NY) | 83,727 | 99 | — | — | — | — | 33 | * | — |
| Harris Lake (NY) | — | –2 | — | — | — | — | — | * | — |
| Hickling (NY) | 26,369 | — | — | — | — | — | 18 | — | — |
| High Falls (NY) | — | — | — | 7,578 | — | — | — | — | — |
| Jennison (NY) | –309 | — | — | — | — | — | — | — | — |
| Kents Falls (NY) | — | — | — | 4,461 | — | — | — | — | — |
| Keuka (NY) | — | — | — | — | — | — | — | — | — |
| Mechanicvle (NY) | — | — | — | 9,135 | — | — | — | — | — |
| Mill C (NY) | — | — | — | 2,279 | — | — | — | — | — |
| Milliken (NY) | 179,321 | 2 | — | — | — | — | 71 | * | — |
| Rainbow Falls (NY) | — | — | — | 620 | — | — | — | — | — |
| Seneca Falls (NY) | — | — | — | — | — | — | — | — | — |
| Somerset (NY) | 400,574 | 504 | — | — | — | — | 155 | 1 | — |
| Waterloo (NY) | — | — | — | — | — | — | — | — | — |
| **Natchitoches (City of)** | — | — | — | — | — | — | — | — | — |
| Natchitoches (LA) | — | — | — | — | — | — | — | — | — |
| **Nebraska Pub Power Dist** | **827,690** | **121** | **1,242** | **20,985** | **517,446** | — | **512** | * | **13** |
| Canaday (NE) | — | — | — | — | — | — | — | — | — |
| Columbus (NE) | — | — | — | 6,625 | — | — | — | — | — |
| Cooper (NE) | — | — | — | — | 517,446 | — | — | — | — |
| David City (NE) | — | 19 | — | — | — | — | — | * | — |
| Gentleman (NE) | 714,454 | — | 1,045 | — | — | — | 439 | — | 11 |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Nebraska Pub Power Dist** | | | | | | | | | |
| Hallam (NE) | — | — | — | — | — | — | — | * | — |
| Hebron (NE) | — | 52 | — | — | — | — | — | * | — |
| Kearney (NE) | — | — | — | — | — | — | — | — | — |
| Lodgepole (NE) | — | — | — | — | — | — | — | — | — |
| Lyons (NE) | — | 2 | — | — | — | — | — | * | — |
| Madison (NE) | — | 2 | 6 | — | — | — | — | * | * |
| Mc Cook (NE) | — | 11 | — | — | — | — | — | * | — |
| Minnechaduza (NE) | — | — | — | — | — | — | — | — | — |
| Mobile (NE) | — | — | — | — | — | — | — | — | — |
| Monroe (NE) | — | — | — | 1,564 | — | — | — | — | — |
| North Platte (NE) | — | — | — | 11,837 | — | — | — | — | — |
| Ord (NE) | — | 27 | 9 | — | — | — | — | * | * |
| Sheldon (NE) | 113,236 | — | 179 | — | — | — | 73 | — | 2 |
| Spencer (NE) | — | — | — | 959 | — | — | — | — | — |
| Sutherland (NE) | — | 5 | — | — | — | — | — | * | — |
| Wakefield (NE) | — | 3 | 3 | — | — | — | — | * | * |
| **Nevada Power Co** | **279,039** | **445** | **196,968** | — | — | — | **129** | **1** | **1,707** |
| Clark (NV) | — | — | 190,153 | — | — | — | — | — | 1,621 |
| Gardner, Reid (NV) | 279,039 | 445 | — | — | — | — | 129 | 1 | — |
| Sun Peak (NV) | — | — | 6,815 | — | — | — | — | — | 85 |
| Sunrise (NV) | — | — | — | — | — | — | — | — | — |
| **New Orleans Pub Serv Inc** | — | **56,081** | **222,916** | — | — | — | — | **100** | **2,385** |
| Michoud (LA) | — | 56,081 | 222,916 | — | — | — | — | 100 | 2,385 |
| Paterson, A B (LA) | — | — | — | — | — | — | — | — | — |
| **New Ulm (City of)** | — | **1** | **1,155** | — | — | — | — | * | **42** |
| New Ulm (MN) | — | 1 | 1,155 | — | — | — | — | * | 42 |
| **Niagara Mohawk Power Corp** | **592,979** | **56,537** | **5,582** | **283,258** | **1,175,822** | — | **232** | **112** | **69** |
| Albany (NY) | — | 55,776 | 5,582 | — | — | — | — | 111 | 69 |
| Allens Falls (NY) | — | — | — | 2,052 | — | — | — | — | — |
| Baldwinsville (NY) | — | — | — | 226 | — | — | — | — | — |
| Beardslee (NY) | — | — | — | 3,970 | — | — | — | — | — |
| Beebee Island (NY) | — | — | — | 4,747 | — | — | — | — | — |
| Belfort (NY) | — | — | — | 1,141 | — | — | — | — | — |
| Bennetts Bridge (NY) | — | — | — | 7,242 | — | — | — | — | — |
| Black River (NY) | — | — | — | 2,943 | — | — | — | — | — |
| Blake (NY) | — | — | — | -34 | — | — | — | — | — |
| Browns Falls (NY) | — | — | — | 5,627 | — | — | — | — | — |
| Chasm (NY) | — | — | — | 1,775 | — | — | — | — | — |
| Colton (NY) | — | — | — | 17,380 | — | — | — | — | — |
| Deferiet (NY) | — | — | — | 5,676 | — | — | — | — | — |
| Dunkirk (NY) | 271,573 | 409 | — | — | — | — | 104 | 1 | — |
| Eagle (NY) | — | — | — | 2,899 | — | — | — | — | — |
| East Norfolk (NY) | — | — | — | 2,307 | — | — | — | — | — |
| Eel Weir (NY) | — | — | — | 1,135 | — | — | — | — | — |
| Effley (NY) | — | — | — | 1,476 | — | — | — | — | — |
| Elmer (NY) | — | — | — | 970 | — | — | — | — | — |
| Ephratah (NY) | — | — | — | 1,963 | — | — | — | — | — |
| Feeder Dam (NY) | — | — | — | 2,883 | — | — | — | — | — |
| Five Falls (NY) | — | — | — | 11,248 | — | — | — | — | — |
| Flat Rock (NY) | — | — | — | 1,571 | — | — | — | — | — |
| Franklin (NY) | — | — | — | 860 | — | — | — | — | — |
| Fulton (NY) | — | — | — | 466 | — | — | — | — | — |
| Glenwood (NY) | — | — | — | 625 | — | — | — | — | — |
| Granby (NY) | — | — | — | 6,343 | — | — | — | — | — |
| Green Island (NY) | — | — | — | 2,066 | — | — | — | — | — |
| Hannawa (NY) | — | — | — | 4,980 | — | — | — | — | — |
| Herrings (NY) | — | — | — | 2,531 | — | — | — | — | — |
| Heuvelton (NY) | — | — | — | 457 | — | — | — | — | — |
| High Dam (NY) | — | — | — | 5,076 | — | — | — | — | — |
| High Falls (NY) | — | — | — | 2,855 | — | — | — | — | — |
| Higley (NY) | — | — | — | 2,125 | — | — | — | — | — |
| Hogansburg (NY) | — | — | — | 180 | — | — | — | — | — |
| Huntley, C R (NY) | 321,406 | 345 | — | — | — | — | 128 | 1 | — |
| Hydraulic Race (NY) | — | — | — | — | — | — | — | — | — |
| Inghams (NY) | — | — | — | 2,635 | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Niagara Mohawk Power Corp** | | | | | | | | | |
| Johnsonville (NY) | — | — | — | 552 | — | — | — | — | — |
| Kamargo (NY) | — | — | — | 2,169 | — | — | — | — | — |
| Lighthouse Hill (NY) | — | — | — | 1,749 | — | — | — | — | — |
| Macomb (NY) | — | — | — | 514 | — | — | — | — | — |
| Mechanicville (NY) | — | — | — | −21 | — | — | — | — | — |
| Minetto (NY) | — | — | — | 4,869 | — | — | — | — | — |
| Moshier (NY) | — | — | — | 4,528 | — | — | — | — | — |
| Nine Mile Point (NY) | — | 7 | — | — | 1,175,822 | — | — | * | — |
| Norfolk (NY) | — | — | — | 2,483 | — | — | — | — | — |
| Norwood (NY) | — | — | — | 1,376 | — | — | — | — | — |
| Oak Orchard (NY) | — | — | — | — | — | — | — | — | — |
| Oswegatchie (NY) | — | — | — | — | — | — | — | — | — |
| Oswego (NY) | — | — | — | — | — | — | — | — | — |
| Oswego Falls Es (NY) | — | — | — | 2,583 | — | — | — | — | — |
| Oswego Falls Ws (NY) | — | — | — | 1,330 | — | — | — | — | — |
| Parishville (NY) | — | — | — | 1,364 | — | — | — | — | — |
| Piercefield (NY) | — | — | — | 814 | — | — | — | — | — |
| Prospect (NY) | — | — | — | 9,224 | — | — | — | — | — |
| Rainbow (NY) | — | — | — | 11,403 | — | — | — | — | — |
| Raymondville (NY) | — | — | — | 1,248 | — | — | — | — | — |
| Schaghticoke (NY) | — | — | — | −3 | — | — | — | — | — |
| School Street (NY) | — | — | — | 15,634 | — | — | — | — | — |
| Schuylerville (NY) | — | — | — | −9 | — | — | — | — | — |
| Sewalls (NY) | — | — | — | 1,430 | — | — | — | — | — |
| Sherman Island (NY) | — | — | — | 10,966 | — | — | — | — | — |
| So Glens Falls (NY) | — | — | — | — | — | — | — | — | — |
| Soft Maple (NY) | — | — | — | 3,244 | — | — | — | — | — |
| South Colton (NY) | — | — | — | 9,518 | — | — | — | — | — |
| South Edwards (NY) | — | — | — | 1,955 | — | — | — | — | — |
| Spier Falls (NY) | — | — | — | 26,407 | — | — | — | — | — |
| Stark (NY) | — | — | — | 10,813 | — | — | — | — | — |
| Stewarts Bridge (NY) | — | — | — | 17,363 | — | — | — | — | — |
| Stuyvesant Falls (NY) | — | — | — | — | — | — | — | — | — |
| Sugar Island (NY) | — | — | — | 2,720 | — | — | — | — | — |
| Talcville (NY) | — | — | — | 77 | — | — | — | — | — |
| Taylorville (NY) | — | — | — | 1,910 | — | — | — | — | — |
| Trenton (NY) | — | — | — | 11,789 | — | — | — | — | — |
| Varick (NY) | — | — | — | 3,721 | — | — | — | — | — |
| Waterport (NY) | — | — | — | 1,410 | — | — | — | — | — |
| West, E J (NY) | — | — | — | 7,426 | — | — | — | — | — |
| Yaleville (NY) | — | — | — | 306 | — | — | — | — | — |
| **North Atlantic Energy Corp** | — | — | — | — | **779,325** | — | — | — | — |
| Seabrook (NH) | — | — | — | — | 779,325 | — | — | — | — |
| **Northeast Nucl Energy Co** | — | — | — | — | **772,278** | — | — | — | — |
| Millstone (CT) | — | — | — | — | 772,278 | — | — | — | — |
| **Northern Ind Pub Serv Co** | **1,344,687** | — | **5,112** | **7,741** | — | — | **729** | — | **58** |
| Bailly (IN) | 268,245 | — | 217 | — | — | — | 128 | — | 2 |
| Michigan City (IN) | 201,139 | — | 654 | — | — | — | 113 | — | 7 |
| Mitchell, Dean H (IN) | 102,600 | — | 1,653 | — | — | — | 63 | — | 19 |
| Norway (IN) | — | — | — | 3,172 | — | — | — | — | — |
| Oakdale (IN) | — | — | — | 4,569 | — | — | — | — | — |
| Schahfer, R. M. (IN) | 772,703 | — | 2,588 | — | — | — | 425 | — | 30 |
| **Northern States Power Co** | **1,382,932** | **57,437** | **12,150** | **46,304** | **1,109,372** | **29,731** | **819** | **3** | **175** |
| Angus Anson (SD) | — | — | 8,732 | — | — | — | — | — | 114 |
| Apple River (WI) | — | — | — | 1,224 | — | — | — | — | — |
| Bay Front (WI) | 17,009 | — | 1,650 | — | — | 10,297 | 12 | — | 25 |
| Big Falls (WI) | — | — | — | 1,519 | — | — | — | — | — |
| Black Dog (MN) | 42,544 | — | 793 | — | — | — | 28 | — | 9 |
| Blue Lake (MN) | — | −252 | — | — | — | — | — | * | — |
| Cedar Falls (WI) | — | — | — | 2,163 | — | — | — | — | — |
| Chippewa Falls (WI) | — | — | — | 3,067 | — | — | — | — | — |
| Cornell (WI) | — | — | — | 3,510 | — | — | — | — | — |
| Dells (WI) | — | — | — | 2,259 | — | — | — | — | — |
| Flambeau (WI) | — | — | 94 | — | — | — | — | — | 2 |
| French Island (WI) | — | −83 | 5 | — | — | 5,052 | — | — | * |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Northern States Power Co** | | | | | | | | | |
| Granite City (MN) | — | 3 | 18 | — | — | — | — | * | 1 |
| Hayward (WI) | — | — | — | 122 | — | — | — | — | — |
| Hennepin Island (MN) | — | — | — | 7,587 | — | — | — | — | — |
| High Bridge (MN) | 123,650 | — | 764 | — | — | — | 77 | — | 8 |
| Holcombe (WI) | — | — | — | 3,887 | — | — | — | — | — |
| Inver Hills (MN) | — | — | -290 | — | — | — | — | — | — |
| Jim Falls (WI) | — | — | — | 4,837 | — | — | — | — | — |
| Key City (MN) | — | — | -45 | — | — | — | — | — | * |
| King (MN) | 217,685 | 38,798 | 143 | — | — | — | 120 | — | 1 |
| Ladysmith (WI) | — | — | — | 396 | — | — | — | — | — |
| Menomonie (WI) | — | — | — | 1,490 | — | — | — | — | — |
| Minnesota Valley (MN) | — | — | -38 | — | — | — | — | — | — |
| Monticello (MN) | — | — | — | — | 401,710 | — | — | — | — |
| Pathfinder (SD) | — | — | -173 | — | — | — | — | — | — |
| Prairie Island (MN) | — | — | — | — | 707,662 | — | — | — | — |
| Redwing (MN) | — | — | 45 | — | — | 3,567 | — | — | 1 |
| Riverdale (WI) | — | — | — | 234 | — | — | — | — | — |
| Riverside (MN) | 122,554 | 18,143 | 174 | — | — | — | 71 | * | 1 |
| Saxon Falls (MI) | — | — | — | 753 | — | — | — | — | — |
| Sherburne County (MN) | 859,490 | 814 | — | — | — | — | 511 | 2 | — |
| St Croix Falls (WI) | — | — | — | 5,427 | — | — | — | — | — |
| Superior Falls (MI) | — | — | — | 830 | — | — | — | — | — |
| Thornapple (WI) | — | — | — | 411 | — | — | — | — | — |
| Trego (WI) | — | — | — | 459 | — | — | — | — | — |
| West Faribault (MN) | — | — | -20 | — | — | — | — | — | — |
| Wheaton (WI) | — | 14 | 114 | — | — | — | — | * | 9 |
| White River (WI) | — | — | — | 327 | — | — | — | — | — |
| Wilmarth (MN) | — | — | 184 | — | — | 10,815 | — | — | 3 |
| Wissota (WI) | — | — | — | 5,802 | — | — | — | — | — |
| **Northwestern Pub Serv Co** | — | -110 | 24 | — | — | — | — | * | 3 |
| Aberdeen (SD) | — | -18 | — | — | — | — | — | — | — |
| Clark (SD) | — | -9 | — | — | — | — | — | * | — |
| Faulkton (SD) | — | -17 | — | — | — | — | — | — | — |
| Highmore (SD) | — | -11 | — | — | — | — | — | * | — |
| Huron (SD) | — | — | 34 | — | — | — | — | — | 3 |
| Mobile (SD) | — | -5 | — | — | — | — | — | — | — |
| Redfield (SD) | — | -8 | -15 | — | — | — | — | * | * |
| Webster (SD) | — | -24 | — | — | — | — | — | * | — |
| Yankton New (SD) | — | -18 | 5 | — | — | — | — | * | * |
| **Oakdale South San Joaquin** | — | — | — | 48,979 | — | — | — | — | — |
| Beardsley (CA) | — | — | — | 4,530 | — | — | — | — | — |
| Donnels (CA) | — | — | — | 26,450 | — | — | — | — | — |
| Sand Bar (CA) | — | — | — | 7,954 | — | — | — | — | — |
| Tulloch (CA) | — | — | — | 10,045 | — | — | — | — | — |
| **Oglethorpe Power Corp** | — | — | — | -22,378 | — | — | — | — | — |
| Rocky Mountain (GA) | — | — | — | -22,908 | — | — | — | — | — |
| Tallassee (GA) | — | — | — | 530 | — | — | — | — | — |
| **Ohio Edison Co** | 1,197,450 | 2,413 | 13,894 | — | — | — | 502 | 5 | 136 |
| Burger, R E (OH) | 92,440 | 393 | — | — | — | — | 40 | 1 | — |
| Edgewater (OH) | — | 1,292 | 13,894 | — | — | — | — | 3 | 136 |
| Gorge Steam (OH) | — | — | — | — | — | — | — | — | — |
| Mad River (OH) | — | — | — | — | — | — | — | — | — |
| Niles (OH) | 83,225 | 23 | — | — | — | — | 36 | * | — |
| Sammis (OH) | 1,021,785 | 705 | — | — | — | — | 426 | 1 | — |
| West Lorain (OH) | — | — | — | — | — | — | — | — | — |
| **Ohio Power Co** | 3,130,465 | 2,810 | — | 16,024 | — | — | 1,267 | 5 | — |
| Gavin, Gen J M (OH) | 1,373,550 | 31 | — | — | — | — | 585 | * | — |
| Kammer (WV) | 349,091 | 123 | — | — | — | — | 138 | * | — |
| Mitchell (WV) | 828,768 | 1,679 | — | — | — | — | 317 | 3 | — |
| Muskingum River (OH) | 579,056 | 977 | — | — | — | — | 227 | 2 | — |
| Racine (OH) | — | — | — | 16,024 | — | — | — | — | — |
| Tidd (OH) | — | — | — | — | — | — | — | — | — |
| **Ohio Valley Elec Corp** | 566,456 | 374 | — | — | — | — | 212 | 1 | — |
| Kyger Creek (OH) | 566,456 | 374 | — | — | — | — | 212 | 1 | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Oklahoma Gas & Elec Co** | **1,180,536** | **2** | **236,065** | **—** | **—** | **—** | **703** | * | **2,481** |
| Arbuckle (OK) | — | — | — | — | — | — | — | — | — |
| Conoco (OK) | — | — | 36,161 | — | — | — | — | — | 302 |
| Enid (OK) | — | — | — | — | — | — | — | — | — |
| Horseshoe Lake (OK) | — | — | — | — | — | — | — | — | — |
| Muskogee (OK) | 687,582 | — | 1,090 | — | — | — | 407 | — | 20 |
| Mustang (OK) | — | — | — | — | — | — | — | — | — |
| Seminole (OK) | — | — | 198,814 | — | — | — | — | — | 2,159 |
| Sooner (OK) | 492,954 | 2 | — | — | — | — | 296 | * | — |
| Woodward (OK) | — | — | — | — | — | — | — | — | — |
| **Oklahoma Mun Power Authority** | **—** | **—** | **7,928** | **7,226** | **—** | **—** | **—** | **—** | **70** |
| Kaw Hydro (OK) | — | — | — | 7,226 | — | — | — | — | — |
| Ponca Steam (OK) | — | — | — | — | — | — | — | — | — |
| Ponca Steam (OK) | — | — | 7,928 | — | — | — | — | — | 70 |
| **Omaha Public Power Dist** | **229,486** | **–67** | **1,821** | **—** | **322,130** | **—** | **158** | **—** | **24** |
| Fort Calhoun (NE) | — | — | — | — | 322,130 | — | — | — | — |
| Jones Street (NE) | — | –67 | — | — | — | — | — | — | — |
| Nebraska City (NE) | –7,281 | — | — | — | — | — | — | — | — |
| North Omaha (NE) | 236,767 | — | 1,864 | — | — | — | 158 | — | 22 |
| Sarpy (NE) | — | — | –43 | — | — | — | — | — | 2 |
| **Orange & Rockland Utl Inc** | **131,804** | **58,247** | **136,917** | **4,572** | **—** | **—** | **56** | **99** | **1,442** |
| Bowline Point (NY) | — | 58,224 | 115,186 | — | — | — | — | 99 | 1,213 |
| Grahamsville (NY) | — | — | — | –12 | — | — | — | — | — |
| Hillburn (NY) | — | — | — | — | — | — | — | — | — |
| Lovett (NY) | 131,804 | — | 21,697 | — | — | — | 56 | — | 228 |
| Mongaup (NY) | — | — | — | 1,087 | — | — | — | — | — |
| Rio (NY) | — | — | — | 2,082 | — | — | — | — | — |
| Shoemaker (NY) | — | 23 | 34 | — | — | — | — | * | 1 |
| Swinging Bridge 1 (NY) | — | — | — | 1,182 | — | — | — | — | — |
| Swinging Bridge 2 (NY) | — | — | — | 233 | — | — | — | — | — |
| **Orlando (City of)** | **454,639** | **7,886** | **29,378** | **—** | **—** | **—** | **167** | **15** | **348** |
| Indian River (FL) | — | 7,094 | 29,378 | — | — | — | — | 13 | 348 |
| St Cloud (FL) | — | — | — | — | — | — | — | — | — |
| Stanton (FL) | 454,639 | 792 | — | — | — | — | 167 | 1 | — |
| **Oroville Wyandotte I Dist** | **—** | **—** | **—** | **71,274** | **—** | **—** | **—** | **—** | **—** |
| Forbestown (CA) | — | — | — | 19,923 | — | — | — | — | — |
| Kelly Ridge (CA) | — | — | — | 7,236 | — | — | — | — | — |
| Sly Creek (CA) | — | — | — | 6,018 | — | — | — | — | — |
| Woodleaf (CA) | — | — | — | 38,097 | — | — | — | — | — |
| **Orrville (City of)** | **23,984** | **—** | **49** | **—** | **—** | **—** | **15** | **—** | **1** |
| Orrville (OH) | 23,984 | — | 49 | — | — | — | 15 | — | 1 |
| **Otter Tail Power Co** | **354,979** | **49** | **—** | **5,146** | **—** | **—** | **206** | * | **—** |
| Bemidji (MN) | — | — | — | 102 | — | — | — | — | — |
| Big Stone (SD) | 296,928 | 3 | — | — | — | — | 171 | * | — |
| Dayton Hollow (MN) | — | — | — | 665 | — | — | — | — | — |
| Hoot Lake (MN) | 58,051 | 14 | — | 372 | — | — | 36 | * | — |
| Jamestown (ND) | — | — | — | — | — | — | — | — | — |
| Lake Preston (SD) | — | 32 | — | — | — | — | — | * | — |
| Pisgah (MN) | — | — | — | 433 | — | — | — | — | — |
| Port 148 (MN) | — | — | — | — | — | — | — | — | — |
| Taplin Gorge (MN) | — | — | — | 329 | — | — | — | — | — |
| Wright (MN) | — | — | — | 3,245 | — | — | — | — | — |
| **Owensboro (City of)** | **217,666** | **233** | **—** | **—** | **—** | **—** | **102** | **1** | **—** |
| Elmer Smith (KY) | 217,666 | 233 | — | — | — | — | 102 | 1 | — |
| **Pacific Gas & Electric Co** | **—** | **1,253** | **825,698** | **1,118,382** | **892,290** | **340,856** | **—** | **3** | **8,459** |
| Alta (CA) | — | — | — | 382 | — | — | — | — | — |
| Balch 1 (CA) | — | — | — | 3,169 | — | — | — | — | — |
| Balch 2 (CA) | — | — | — | 13,584 | — | — | — | — | — |
| Belden (CA) | — | — | — | 48,614 | — | — | — | — | — |
| Black, James B (CA) | — | — | — | 75,159 | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Pacific Gas & Electric Co** | | | | | | | | | |
| Bucks Creek (CA) | — | — | — | 23,461 | — | — | — | — | — |
| Butt Valley (CA) | — | — | — | 10,778 | — | — | — | — | — |
| Caribou 1 (CA) | — | — | — | 16,329 | — | — | — | — | — |
| Caribou 2 (CA) | — | — | — | 54,295 | — | — | — | — | — |
| Centerville (CA) | — | — | — | 1,886 | — | — | — | — | — |
| Chili Bar (CA) | — | — | — | 5,086 | — | — | — | — | — |
| Coal Canyon (CA) | — | — | — | 183 | — | — | — | — | — |
| Coleman (CA) | — | — | — | 7,669 | — | — | — | — | — |
| Contra Costa (CA) | — | — | 221,567 | — | — | — | — | — | 2,138 |
| Cow Creek (CA) | — | — | — | 1,302 | — | — | — | — | — |
| Crane Valley (CA) | — | — | — | 164 | — | — | — | — | — |
| Cresta (CA) | — | — | — | 45,433 | — | — | — | — | — |
| De Sabla (CA) | — | — | — | 9,953 | — | — | — | — | — |
| Deer Creek (CA) | — | — | — | 1,275 | — | — | — | — | — |
| Diablo Canyon (CA) | — | — | — | — | 892,290 | — | — | — | — |
| Downieville (CA) | — | -5 | — | — | — | — | — | — | — |
| Drum 1 (CA) | — | — | — | 12,809 | — | — | — | — | — |
| Drum 2 (CA) | — | — | — | 29,243 | — | — | — | — | — |
| Dutch Flat (CA) | — | — | — | 6,250 | — | — | — | — | — |
| El Dorado (CA) | — | — | — | — | — | — | — | — | — |
| Electra (CA) | — | — | — | 42,712 | — | — | — | — | — |
| Haas (CA) | — | — | — | 3,012 | — | — | — | — | — |
| Halsey (CA) | — | — | — | 5,592 | — | — | — | — | — |
| Hamilton Branch (CA) | — | — | — | 3,215 | — | — | — | — | — |
| Hat Creek 1 (CA) | — | — | — | 4,353 | — | — | — | — | — |
| Hat Creek 2 (CA) | — | — | — | 5,482 | — | — | — | — | — |
| Helms (CA) | — | — | — | 6,994 | — | — | — | — | — |
| Hercules St (CA) | — | — | — | — | — | — | — | — | — |
| Humbolt Bay (CA) | — | 771 | 221,587 | — | — | — | — | 2 | 2,138 |
| Hunters Point (CA) | — | — | 50,461 | — | — | — | — | — | 622 |
| Inskip (CA) | — | — | — | 5,083 | — | — | — | — | — |
| Kerckhoff (CA) | — | — | — | -20 | — | — | — | — | — |
| Kerckhoff 2 (CA) | — | — | — | 39,200 | — | — | — | — | — |
| Kern Canyon (CA) | — | — | — | — | — | — | — | — | — |
| Kilarc (CA) | — | — | — | 2,185 | — | — | — | — | — |
| Kings River (CA) | — | — | — | -45 | — | — | — | — | — |
| Lime Saddle (CA) | — | — | — | 344 | — | — | — | — | — |
| Merced Falls (CA) | — | — | — | 554 | — | — | — | — | — |
| Mobile Turbine (CA) | — | — | — | — | — | — | — | — | — |
| Narrows (CA) | — | — | — | 7,063 | — | — | — | — | — |
| Newcastle (CA) | — | — | — | 5,744 | — | — | — | — | — |
| Oak Flat (CA) | — | — | — | 349 | — | — | — | — | — |
| Phoenix (CA) | — | — | — | 868 | — | — | — | — | — |
| Pit 1 (CA) | — | — | — | 36,295 | — | — | — | — | — |
| Pit 3 (CA) | — | — | — | 47,281 | — | — | — | — | — |
| Pit 4 (CA) | — | — | — | 63,067 | — | — | — | — | — |
| Pit 5 (CA) | — | — | — | 100,084 | — | — | — | — | — |
| Pit 6 (CA) | — | — | — | 42,741 | — | — | — | — | — |
| Pit 7 (CA) | — | — | — | 68,245 | — | — | — | — | — |
| Pittsburg (CA) | — | — | 268,249 | — | — | — | — | — | 2,916 |
| Poe (CA) | — | — | — | 72,965 | — | — | — | — | — |
| Potrero (CA) | — | 487 | 63,834 | — | — | — | — | 1 | 645 |
| Potter Valley (CA) | — | — | — | 3,315 | — | — | — | — | — |
| PVUSA 1 (CA) | — | — | — | — | — | 31 | — | — | — |
| Rock Creek (CA) | — | — | — | 63,546 | — | — | — | — | — |
| Salt Springs (CA) | — | — | — | 747 | — | — | — | — | — |
| San Joaquin No. 1a (CA) | — | — | — | 159 | — | — | — | — | — |
| San Joaquin No. 2 (CA) | — | — | — | 638 | — | — | — | — | — |
| San Joaquin 3 (CA) | — | — | — | 750 | — | — | — | — | — |
| South (CA) | — | — | — | 4,728 | — | — | — | — | — |
| Spaulding No. 1 (CA) | — | — | — | 2,864 | — | — | — | — | — |
| Spaulding No. 2 (CA) | — | — | — | 838 | — | — | — | — | — |
| Spaulding No. 3 (CA) | — | — | — | 3,443 | — | — | — | — | — |
| Spring Gap (CA) | — | — | — | 3,804 | — | — | — | — | — |
| Stanislaus (CA) | — | — | — | 35,852 | — | — | — | — | — |
| The Geysers (CA) | — | — | — | — | — | 340,825 | — | — | — |
| Tiger Creek (CA) | — | — | — | 30,780 | — | — | — | — | — |
| Toadtown (CA) | — | — | — | 592 | — | — | — | — | — |
| Tule River (CA) | — | — | — | 2,046 | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Pacific Gas & Electric Co** | | | | | | | | | |
| Volta (CA) | — | — | — | 6,052 | — | — | — | — | — |
| Volta 2 (CA) | — | — | — | 696 | — | — | — | — | — |
| West Point (CA) | — | — | — | 9,412 | — | — | — | — | — |
| Wise (CA) | — | — | — | 9,520 | — | — | — | — | — |
| Wishon, A G (CA) | — | — | — | 8,213 | — | — | — | — | — |
| **Pacificorp** | **4,421,358** | **2,589** | **30,163** | **609,322** | **—** | **11,209** | **2,482** | **5** | **374** |
| American Fork (UT) | — | — | — | — | — | — | — | — | — |
| Ashton (ID) | — | — | — | 3,111 | — | — | — | — | — |
| Beaver Upper (UT) | — | — | — | 575 | — | — | — | — | — |
| Bend (OR) | — | — | — | 455 | — | — | — | — | — |
| Big Fork (MT) | — | — | — | 1,368 | — | — | — | — | — |
| Blundell (UT) | — | — | — | — | — | 11,209 | — | — | — |
| Bridger, Jim (WY) | 1,214,213 | 1,654 | — | — | — | — | 681 | 3 | — |
| Carbon (UT) | 99,968 | 116 | — | — | — | — | 47 | * | — |
| Centralia (WA) | 685,857 | — | — | — | — | — | 437 | — | — |
| Clearwater 1 (OR) | — | — | — | 5,333 | — | — | — | — | — |
| Clearwater 2 (OR) | — | — | — | 6,096 | — | — | — | — | — |
| Cline Falls (OR) | — | — | — | 432 | — | — | — | — | — |
| Condit (WA) | — | — | — | 5,174 | — | — | — | — | — |
| Copco 1 (CA) | — | — | — | 15,903 | — | — | — | — | — |
| Copco 2 (CA) | — | — | — | 19,289 | — | — | — | — | — |
| Cove (ID) | — | — | — | 4,428 | — | — | — | — | — |
| Cutler (UT) | — | — | — | 13,996 | — | — | — | — | — |
| Eagle Point (OR) | — | — | — | 684 | — | — | — | — | — |
| East Side (OR) | — | — | — | 880 | — | — | — | — | — |
| Fall Creek (CA) | — | — | — | 1,060 | — | — | — | — | — |
| Fish Creek (OR) | — | — | — | 5,775 | — | — | — | — | — |
| Ftn Green (UT) | — | — | — | 106 | — | — | — | — | — |
| Gadsby (UT) | — | — | 19,024 | — | — | — | — | — | 212 |
| Grace (ID) | — | — | — | 19,281 | — | — | — | — | — |
| Granite (UT) | — | — | — | −2 | — | — | — | — | — |
| Hunter (emery) (UT) | 807,597 | 114 | — | — | — | — | 380 | * | — |
| Huntington Canyon (UT) | 581,742 | — | — | — | — | — | 265 | — | — |
| Hydro No. 1 (UT) | — | — | — | 172 | — | — | — | — | — |
| Hydro No. 2 (UT) | — | — | — | 120 | — | — | — | — | — |
| Hydro No. 3 (UT) | — | — | — | 155 | — | — | — | — | — |
| Iron Gate (CA) | — | — | — | 12,317 | — | — | — | — | — |
| John C Boyle (OR) | — | — | — | 58,518 | — | — | — | — | — |
| Johnston, Dave (WY) | 418,098 | 552 | — | — | — | — | 299 | 1 | — |
| Last Chance (UT) | — | — | — | 516 | — | — | — | — | — |
| Lemolo 1 (OR) | — | — | — | 15,537 | — | — | — | — | — |
| Lemolo 2 (OR) | — | — | — | 19,623 | — | — | — | — | — |
| Little Mountain (UT) | — | — | 9,801 | — | — | — | — | — | 148 |
| Merwin (WA) | — | — | — | 85,158 | — | — | — | — | — |
| Naches (WA) | — | — | — | 2,828 | — | — | — | — | — |
| Naches Drop (WA) | — | — | — | 710 | — | — | — | — | — |
| Naughton (WY) | 392,620 | — | 1,338 | — | — | — | 209 | — | 14 |
| Olmstead (UT) | — | — | — | 3,917 | — | — | — | — | — |
| Oneida (ID) | — | — | — | 7,355 | — | — | — | — | — |
| Paris (ID) | — | — | — | 87 | — | — | — | — | — |
| Pioneer (UT) | — | — | — | 1,951 | — | — | — | — | — |
| Powerdale (OR) | — | — | — | 4,457 | — | — | — | — | — |
| Prospect 1 (OR) | — | — | — | 3,119 | — | — | — | — | — |
| Prospect 2 (OR) | — | — | — | 22,667 | — | — | — | — | — |
| Prospect 3 (OR) | — | — | — | 4,991 | — | — | — | — | — |
| Prospect 4 (OR) | — | — | — | 583 | — | — | — | — | — |
| Skookumchuck (WA) | — | — | — | — | — | — | — | — | — |
| Slide Creek (OR) | — | — | — | 9,854 | — | — | — | — | — |
| Snake Creek (UT) | — | — | — | 200 | — | — | — | — | — |
| Soda (ID) | — | — | — | 3,512 | — | — | — | — | — |
| Soda Springs (OR) | — | — | — | 7,431 | — | — | — | — | — |
| St Anthony (ID) | — | — | — | 343 | — | — | — | — | — |
| Stairs (UT) | — | — | — | 322 | — | — | — | — | — |
| Swift No. 2 (WA) | — | — | — | 30,110 | — | — | — | — | — |
| Swift 1 (WA) | — | — | — | 90,769 | — | — | — | — | — |
| Toketee (OR) | — | — | — | 23,799 | — | — | — | — | — |
| Viva (WY) | — | — | — | 57 | — | — | — | — | — |
| Wallowa Falls (OR) | — | — | — | 505 | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Pacificorp** | | | | | | | | | |
| Weber (UT) | — | — | — | 2,098 | — | — | — | — | — |
| West Side (OR) | — | — | — | 450 | — | — | — | — | — |
| Wyodak (WY) | 221,263 | 153 | — | — | — | — | 164 | * | — |
| Yale (WA) | — | — | — | 91,147 | — | — | — | — | — |
| **Painesville (City of)** | **14,826** | — | **219** | — | — | — | **9** | — | **3** |
| Painesville (OH) | 14,826 | — | 219 | — | — | — | 9 | — | 3 |
| **Pasadena (City of)** | — | — | **8,066** | **664** | — | — | — | — | **113** |
| Azusa (CA) | — | — | — | 664 | — | — | — | — | — |
| Broadway (CA) | — | — | 8,065 | — | — | — | — | — | 113 |
| Glenarm (CA) | — | — | 1 | — | — | — | — | — | * |
| **Peabody (City of)** | — | — | **202** | — | — | — | — | — | **2** |
| Waters River (MA) | — | — | 202 | — | — | — | — | — | 2 |
| **Pend Oreille Pub Util D #1** | — | — | — | **33,875** | — | — | — | — | — |
| Box Canyon (WA) | — | — | — | 33,604 | — | — | — | — | — |
| Calispel Creek (WA) | — | — | — | 271 | — | — | — | — | — |
| **Pennsylvania Electric Co** | **3,641,848** | **6,098** | **1,360** | **8,887** | — | — | **1,417** | **10** | **13** |
| Blossburg (PA) | — | — | 4 | — | — | — | — | — | 1 |
| Conemaugh (PA) | 1,068,889 | 88 | 1,356 | — | — | — | 397 | * | 12 |
| Deep Creek (MD) | — | — | — | 1,856 | — | — | — | — | — |
| Homer City (PA) | 1,068,338 | 4,057 | — | — | — | — | 438 | 6 | — |
| Keystone (PA) | 1,137,014 | 45 | — | — | — | — | 428 | * | — |
| Piney (PA) | — | — | — | 8,282 | — | — | — | — | — |
| Seneca (PA) | — | — | — | -1,251 | — | — | — | — | — |
| Seward (PA) | 54,632 | 477 | — | — | — | — | 25 | 1 | — |
| Shawville (PA) | 303,720 | 1,017 | — | — | — | — | 123 | 2 | — |
| Warren (PA) | 9,255 | 234 | — | — | — | — | 6 | 1 | — |
| Wayne (PA) | — | 180 | — | — | — | — | — | * | — |
| **Pennsylvania Power Co** | **1,268,870** | **56** | — | — | — | — | **506** | * | — |
| Mansfield, Bruce (PA) | 1,138,686 | — | — | — | — | — | 448 | — | — |
| New Castle (PA) | 130,184 | 56 | — | — | — | — | 58 | * | — |
| **Pennsylvania Pwr & Lgt Co** | **1,789,202** | **61,654** | **145** | **66,512** | **1,433,345** | — | **649** | **41** | **6** |
| Allentown (PA) | — | 143 | — | — | — | — | — | 3 | — |
| Brunner Island (PA) | 672,150 | 426 | — | — | — | — | 188 | 1 | — |
| Coal Storage (PA) | — | — | — | — | — | — | — | — | — |
| Fishbach (PA) | — | 49 | — | — | — | — | — | 2 | — |
| Harrisburg (PA) | — | 111 | — | — | — | — | — | 5 | — |
| Harwood (PA) | — | 54 | — | — | — | — | — | 1 | — |
| Holtwood (PA) | 32,061 | 15,491 | — | 56,170 | — | — | 25 | * | — |
| Jenkins (PA) | — | 56 | — | — | — | — | — | 2 | — |
| Loch Haven (PA) | — | — | — | — | — | — | — | — | — |
| Martins Creek (PA) | 54,744 | 5,875 | 145 | — | — | — | 22 | 22 | 6 |
| Montour (PA) | 897,098 | 2,818 | — | — | — | — | 332 | 2 | — |
| Sunbury (PA) | 133,149 | 36,546 | — | — | — | — | 83 | 2 | — |
| Susquehanna (PA) | — | — | — | — | 1,433,345 | — | — | — | — |
| Wallenpaupack (PA) | — | — | — | 10,342 | — | — | — | — | — |
| West Shore (PA) | — | 58 | — | — | — | — | — | 1 | — |
| Williamsport (PA) | — | 27 | — | — | — | — | — | 1 | — |
| **Piqua (City of)** | **-64** | **-30** | — | — | — | — | — | * | — |
| Piqua (OH) | -64 | -30 | — | — | — | — | — | * | — |
| **Placer County Wtr Agency** | — | — | — | **101,077** | — | — | — | — | — |
| French Meadows (CA) | — | — | — | — | — | — | — | — | — |
| Hell Hole (CA) | — | — | — | 109 | — | — | — | — | — |
| Middle Fork (CA) | — | — | — | 49,501 | — | — | — | — | — |
| Oxbow (CA) | — | — | — | 3,757 | — | — | — | — | — |
| Ralston (CA) | — | — | — | 47,710 | — | — | — | — | — |
| **Plains El Gen Trans Coop** | **154,260** | — | — | — | — | — | **89** | — | — |
| Algodones (NM) | — | — | — | — | — | — | — | — | — |
| Escalante (NM) | 154,260 | — | — | — | — | — | 89 | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) / Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Platte River Power Auth** | **169,520** | **67** | — | — | — | — | **101** | * | — |
| Rawhide (CO) | 169,520 | 67 | — | — | — | — | 101 | * | — |
| **Portland General Elec Co** | **252,011** | **1,276** | **111,725** | **278,145** | — | — | **145** | **2** | **940** |
| Beaver (OR) | — | — | 49,062 | — | — | — | — | — | 480 |
| Bethel (OR) | — | — | — | — | — | — | — | — | — |
| Boardman (OR) | 252,011 | 1,276 | — | — | — | — | 145 | 2 | — |
| Bull Run (OR) | — | — | — | 10,810 | — | — | — | — | — |
| Coyote Springs (OR) | — | — | 62,663 | — | — | — | — | — | 461 |
| Faraday (OR) | — | — | — | 22,411 | — | — | — | — | — |
| North Fork (OR) | — | — | — | 26,164 | — | — | — | — | — |
| Oak Grove (OR) | — | — | — | 25,531 | — | — | — | — | — |
| Pelton (OR) | — | — | — | 44,940 | — | — | — | — | — |
| Pelton Re Regulation (OR) | — | — | — | 8,977 | — | — | — | — | — |
| Portland Hydro Proj 1 (OR) | — | — | — | 13,172 | — | — | — | — | — |
| Portland Hydro Proj 2 (OR) | — | — | — | — | — | — | — | — | — |
| River Mill (OR) | — | — | — | 13,769 | — | — | — | — | — |
| Round Butte (OR) | — | — | — | 103,381 | — | — | — | — | — |
| Sullivan (OR) | — | — | — | 8,990 | — | — | — | — | — |
| **Potomac Edison Co (The)** | **2,944** | **81** | — | **3,362** | — | — | **2** | * | — |
| Dam 4 (WV) | — | — | — | 681 | — | — | — | — | — |
| Dam 5 (WV) | — | — | — | 679 | — | — | — | — | — |
| Luray (VA) | — | — | — | 356 | — | — | — | — | — |
| Millville (WV) | — | — | — | 752 | — | — | — | — | — |
| Newport (VA) | — | — | — | 412 | — | — | — | — | — |
| Shenandoah (VA) | — | — | — | 160 | — | — | 2 | * | — |
| Smith, R P (MD) | 2,944 | 81 | — | — | — | — | — | — | — |
| Warren (VA) | — | — | — | 322 | — | — | — | — | — |
| **Potomac Electric Pwr Co** | **1,339,114** | **214,779** | **9,785** | — | — | — | **487** | **360** | **98** |
| Benning (DC) | — | 1,527 | — | — | — | — | — | 5 | — |
| Buzzard Point (DC) | — | 148 | — | — | — | — | — | 1 | — |
| Chalk Point (MD) | 217,430 | 210,064 | 9,785 | — | — | — | 86 | 347 | 98 |
| Dickerson (MD) | 334,667 | –210 | — | — | — | — | 119 | * | — |
| Morgantown (MD) | 602,373 | 2,226 | — | — | — | — | 205 | 4 | — |
| Potomac River (VA) | 184,644 | 1,024 | — | — | — | — | 77 | 2 | — |
| **Power Authy of St of N Y** | — | **148,351** | **90,103** | **1,534,537** | **1,206,578** | — | — | **270** | **700** |
| Ashokan (NY) | — | — | — | 1,057 | — | — | — | — | — |
| Blenheim (NY) | — | — | — | –68,441 | — | — | — | — | — |
| Crescent (NY) | — | — | — | 6,533 | — | — | — | — | — |
| Fitzpatrick (NY) | — | — | — | — | 548,055 | — | — | 7 | 697 |
| Flynn (NY) | — | 5,535 | 89,838 | — | — | — | — | — | — |
| Hinckley (NY) | — | — | — | 4,444 | — | — | — | — | — |
| Indian Point (NY) | — | — | — | — | 658,523 | — | — | — | — |
| Kensico (NY) | — | — | — | 1,031 | — | — | — | — | — |
| Lewiston (NY) | — | — | — | –14,930 | — | — | — | — | — |
| Moses Niagara (NY) | — | — | — | 1,103,849 | — | — | — | — | — |
| Moses Power Dam (NY) | — | — | — | 494,638 | — | — | — | 262 | 3 |
| Poletti (NY) | — | 142,816 | 265 | — | — | — | — | — | — |
| Vischer Ferry (NY) | — | — | — | 6,356 | — | — | — | — | — |
| **Pub Serv Co of New Hamp** | **204,751** | **173,296** | **8** | **33,435** | — | — | **83** | **309** | * |
| Amoskeag (NH) | — | — | — | 10,172 | — | — | — | — | — |
| Ayers Island (NH) | — | — | — | 3,855 | — | — | — | — | — |
| Canaan (VT) | — | — | — | 622 | — | — | — | — | — |
| Eastman Falls (NH) | — | — | — | 2,379 | — | — | — | — | — |
| Garvins Falls (NH) | — | — | — | 4,731 | — | — | — | — | — |
| Gorham (NH) | — | — | — | 909 | — | — | — | — | — |
| Hooksett (NH) | — | — | — | 828 | — | — | — | — | — |
| Jackman (NH) | — | — | — | 1,031 | — | — | — | — | — |
| Lost Nation (NH) | — | –18 | — | — | — | — | 71 | * | — |
| Merrimack (NH) | 182,856 | 115 | — | — | — | — | — | 281 | — |
| Newington (NH) | — | 160,553 | — | — | — | — | 12 | 27 | * |
| Schiller (NH) | 21,895 | 12,584 | 8 | — | — | — | — | — | — |
| Smith (NH) | — | — | — | 8,908 | — | — | — | * | — |
| White Lake (NH) | — | 62 | — | — | — | — | — | — | — |
| **Pub Serv Co of New Mexico** | **942,072** | **2,068** | **2,942** | — | — | — | **550** | **4** | **29** |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Pub Serv Co of New Mexico** | | | | | | | | | |
| Las Vegas (NM) | — | — | — | — | — | — | — | — | — |
| Reeves (NM) | — | — | 2,942 | — | — | — | — | — | 29 |
| San Juan (NM) | 942,072 | 2,068 | — | — | — | — | 550 | 4 | — |
| **Public Serv Elec & Gas Co** | **355,778** | **1,425** | **15,906** | **—** | **1,734,331** | **—** | **139** | **10** | **227** |
| Bayonne (NJ) | — | 16 | — | — | — | — | — | * | — |
| Bergen (NJ) | — | — | 9,635 | — | — | — | — | — | 105 |
| Burlington (NJ) | — | 128 | 1,003 | — | — | — | — | 1 | 38 |
| Edison (NJ) | — | — | 475 | — | — | — | — | — | 4 |
| Essex (NJ) | — | — | 2,264 | — | — | — | — | — | 31 |
| Hope Creek (NJ) | — | — | — | — | 297,543 | — | — | — | — |
| Hudson (NJ) | 111,325 | 199 | 2,026 | — | — | — | 48 | * | 22 |
| Kearny (NJ) | — | -567 | -121 | — | — | — | — | 1 | * |
| Linden (NJ) | — | -708 | 171 | — | — | — | — | — | 11 |
| Mercer (NJ) | 244,453 | 275 | 236 | — | — | — | 90 | 1 | 2 |
| National Park (NJ) | — | 34 | — | — | — | — | — | * | — |
| Salem (NJ) | — | 124 | — | — | 1,436,788 | — | — | 1 | — |
| Sewaren (NJ) | — | 1,924 | 217 | — | — | — | — | 5 | 14 |
| **Public Service Co of Colo** | **1,427,878** | **2** | **105,082** | **2,479** | **—** | **—** | **788** | * | **958** |
| Alamosa (CO) | — | — | -14 | — | — | — | — | — | — |
| Ames (CO) | — | — | — | 668 | — | — | — | — | — |
| Arapahoe (CO) | 107,172 | — | 685 | — | — | — | 76 | — | 9 |
| Boulder Hydro (CO) | — | — | — | 946 | — | — | — | — | — |
| Cabin Creek (CO) | — | — | — | -8,561 | — | — | — | — | — |
| Cameo (CO) | 43,289 | — | 212 | — | — | — | 24 | — | 2 |
| Cherokee (CO) | 371,214 | — | 7,946 | — | — | — | 169 | — | 83 |
| Comanche (CO) | 225,109 | — | 1,819 | — | — | — | 141 | — | 20 |
| Fort Lupton (CO) | — | — | 158 | — | — | — | — | — | 3 |
| Fort St. Vrain (CO) | — | — | 92,962 | — | — | — | — | — | 817 |
| Fruita (CO) | — | 2 | 10 | — | — | — | — | * | * |
| Georgetown Hydro (CO) | — | — | — | 38 | — | — | — | — | — |
| Hayden (CO) | 256,336 | — | 362 | — | — | — | 131 | — | 4 |
| Palisade Hydro (CO) | — | — | — | 1,957 | — | — | — | — | — |
| Pawnee (CO) | 313,452 | — | 249 | — | — | — | 197 | — | 3 |
| Salida No. 1 Hydro (CO) | — | — | — | 94 | — | — | — | — | — |
| Salida No. 2 Hydro (CO) | — | — | — | 77 | — | — | — | — | — |
| Shoshone Hydro (CO) | — | — | — | 5,221 | — | — | — | — | — |
| Tacoma (CO) | — | — | — | 2,039 | — | — | — | — | — |
| Valmont (CO) | 111,306 | — | 346 | — | — | — | 52 | — | 5 |
| Zuni (CO) | — | — | 347 | — | — | — | — | — | 13 |
| **Public Service Co of Okla** | **552,913** | **10** | **369,679** | **—** | **—** | **—** | **331** | * | **3,710** |
| Comanche (OK) | — | 3 | 132,105 | — | — | — | — | * | 1,149 |
| Northeastern (OK) | 552,913 | — | 85,181 | — | — | — | 331 | — | 873 |
| Riverside (OK) | — | — | 93,987 | — | — | — | — | — | 1,015 |
| Southwestern (OK) | — | — | 57,176 | — | — | — | — | — | 652 |
| Tulsa (OK) | — | 7 | — | — | — | — | — | * | — |
| Weleetka (OK) | — | — | 1,230 | — | — | — | — | — | 22 |
| **Puget Sound Pwr & Lgt Co** | **—** | **49** | **2,106** | **115,384** | **—** | **—** | **—** | * | **28** |
| Crystal Mountain (WA) | — | 7 | — | — | — | — | — | * | — |
| Electron (WA) | — | — | — | 8,915 | — | — | — | — | — |
| Frederickson (WA) | — | — | 2,106 | — | — | — | — | — | 28 |
| Fredonia (WA) | — | — | — | — | — | — | — | — | — |
| Lower Baker (WA) | — | — | — | 29,153 | — | — | — | — | — |
| Nooksack (WA) | — | — | — | — | — | — | — | — | — |
| Snoqualmie (WA) | — | — | — | 24,683 | — | — | — | — | — |
| South Whidbey (WA) | — | — | — | — | — | — | — | — | — |
| Upper Baker (WA) | — | — | — | 21,027 | — | — | — | — | — |
| White River (WA) | — | — | — | 31,606 | — | — | — | — | — |
| Whitehorn (WA) | — | 42 | — | — | — | — | — | * | — |
| **PECO Energy Co** | **89,838** | **85,150** | **1,853** | **153,527** | **2,996,876** | **—** | **50** | **203** | **25** |
| Chester (PA) | — | 56 | — | — | — | — | — | * | — |
| Conowingo (MD) | — | — | — | 181,908 | — | — | — | — | — |
| Cromby (PA) | 42,967 | 14,916 | 1,124 | — | — | — | 19 | 28 | 13 |
| Croydon (PA) | — | 453 | — | — | — | — | — | 1 | — |
| Delaware (PA) | — | 28,705 | — | — | — | — | — | 60 | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **PECO Energy Co** | | | | | | | | | |
| Eddystone (PA) | 46,871 | 37,478 | 729 | — | — | — | 31 | 105 | 12 |
| Falls (PA) | — | 42 | — | — | — | — | — | * | — |
| Limerick (PA) | — | — | — | — | 1,500,167 | — | — | — | — |
| Moser (PA) | — | 94 | — | — | — | — | — | * | — |
| Muddy Run (PA) | — | — | — | -28,381 | — | — | — | — | — |
| Oil Storage (PA) | — | — | — | — | — | — | — | — | — |
| Peach Bottom (PA) | — | — | — | — | 1,496,709 | — | — | — | — |
| Richmond (PA) | — | 31 | — | — | — | — | — | * | — |
| Schuylkill (PA) | — | 3,246 | — | — | — | — | — | 8 | — |
| Southwark (PA) | — | 129 | — | — | — | — | — | * | — |
| **PSI Energy, Inc** | **2,360,036** | **7,984** | **4,241** | **29,650** | **—** | **—** | **1,077** | **15** | **30** |
| Cayuga (IN) | 535,553 | 39 | 4,241 | — | — | — | 249 | * | 30 |
| Connersville (IN) | — | 57 | — | — | — | — | — | * | — |
| Edwardsport (IN) | 26,189 | 176 | — | — | — | — | 17 | * | — |
| Gallagher, R (IN) | 180,683 | 2,572 | — | — | — | — | 74 | 5 | — |
| Gibson (IN) | 1,295,243 | 1,487 | — | — | — | — | 575 | 3 | — |
| Markland (IN) | — | — | — | 29,650 | — | — | — | — | — |
| Miami Wabash (IN) | — | -77 | — | — | — | — | — | — | — |
| Noblesville (IN) | 30,211 | 122 | — | — | — | — | 18 | * | — |
| Wabash River (IN) | 292,157 | 3,608 | — | — | — | — | 144 | 7 | — |
| **Redding (City of)** | **—** | **—** | **—** | **2,327** | **—** | **—** | **—** | **—** | **—** |
| Redding Power (CA) | — | — | — | — | — | — | — | — | — |
| Whiskeytown (CA) | — | — | — | 2,327 | — | — | — | — | — |
| **Richmond (City of)** | **49,477** | **37** | **—** | **—** | **—** | **—** | **24** | * | **—** |
| Whitewater Valley (IN) | 49,477 | 37 | — | — | — | — | 24 | * | — |
| **Rochester (City of)** | **17,254** | **-22** | **174** | **1,149** | **—** | **—** | **9** | * | **3** |
| Cascade Creek (MN) | — | -22 | — | — | — | — | — | * | — |
| Rochester (MN) | — | — | — | 1,149 | — | — | — | — | — |
| Silver Lake (MN) | 17,254 | — | 174 | — | — | — | 9 | — | 3 |
| **Rochester Gas & Elec Corp** | **133,036** | **339** | **51** | **21,277** | **281,446** | **—** | **53** | **1** | **1** |
| Ginna (NY) | — | — | — | — | 281,446 | — | — | — | — |
| Station 160 (NY) | — | — | — | — | — | — | — | — | — |
| Station 170 (NY) | — | — | — | — | — | — | — | — | — |
| Station 172 (NY) | — | — | — | — | — | — | — | — | — |
| Station 2 (NY) | — | — | — | 3,634 | — | — | — | — | — |
| Station 26 (NY) | — | — | — | 670 | — | — | — | — | — |
| Station 3 (NY) | 29,832 | 102 | — | — | — | — | 12 | * | — |
| Station 5 (NY) | — | — | — | 16,973 | — | — | — | — | — |
| Station 7 (NY) | 103,204 | 237 | — | — | — | — | 41 | * | — |
| Station 9 (NY) | — | — | 51 | — | — | — | — | — | 1 |
| **Ruston (City of)** | **—** | **—** | **10,079** | **—** | **—** | **—** | **—** | **—** | **111** |
| Ruston (LA) | — | — | 10,079 | — | — | — | — | — | 111 |
| **Sacramento Mun Util Dist** | **—** | **-73** | **146,168** | **243,196** | **—** | **42** | **—** | * | **1,300** |
| Camino (CA) | — | — | — | 48,930 | — | — | — | — | — |
| Camp Far W (CA) | — | — | — | 5,047 | — | — | — | — | — |
| Campbell Soup (CA) | — | — | 83,821 | — | — | — | — | — | 631 |
| Carson (CA) | — | — | 21,277 | — | — | — | — | — | 228 |
| Coldwater Creek (CA) | — | — | — | — | — | — | — | — | — |
| Hedge PV (CA) | — | — | — | — | — | 18 | — | — | — |
| Jaybird (CA) | — | — | — | 67,722 | — | — | — | — | — |
| Jones Fork (CA) | — | — | — | 3,589 | — | — | — | — | — |
| Loon Lake (CA) | — | — | — | 23,480 | — | — | — | — | — |
| McClellan (CA) | — | -73 | — | — | — | — | — | * | — |
| Proc&Gamble (CA) | — | — | 41,070 | — | — | — | — | — | 442 |
| Robbs Peak (CA) | — | — | — | 10,965 | — | — | — | — | — |
| Slab Creek (CA) | — | — | — | — | — | — | — | — | — |
| Solano (CA) | — | — | — | — | — | -5 | — | — | — |
| Solar (CA) | — | — | — | — | — | 29 | — | — | — |
| Union Valley (CA) | — | — | — | 12,218 | — | — | — | — | — |
| White Rock (CA) | — | — | — | 71,245 | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) / Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Safe Harbor Water Power Corp** | — | — | — | **105,209** | — | — | — | — | — |
| Safe Harbor (PA) | — | — | — | 105,209 | — | — | — | — | — |
| **Salt River Project** | **1,406,238** | **1,263** | **64,876** | **7,049** | — | — | **677** | **2** | **667** |
| Agua Fria (AZ) | — | — | 31,928 | — | — | — | — | — | 349 |
| Coronado (AZ) | 457,521 | 183 | — | — | — | — | 234 | * | — |
| Crosscut (AZ) | — | — | — | — | — | — | — | — | — |
| Horse Mesa (AZ) | — | — | — | 4,702 | — | — | — | — | — |
| Kyrene (AZ) | — | — | –25 | — | — | — | — | — | 4 |
| Mormon Flat (AZ) | — | — | — | 2,150 | — | — | — | — | — |
| Navajo (AZ) | 948,717 | 1,070 | — | — | — | — | 443 | 2 | — |
| Roosevelt (AZ) | — | — | — | 206 | — | — | — | — | — |
| San Tan (AZ) | — | 10 | 32,973 | — | — | — | — | * | 314 |
| South Con (AZ) | — | — | — | — | — | — | — | — | — |
| Stewart Mtn (AZ) | — | — | — | –9 | — | — | — | — | — |
| Tnk Frm Stg (AZ) | — | — | — | — | — | — | — | — | — |
| **San Antonio Pub Serv Brd** | **545,026** | **1,656** | **224,398** | — | — | — | **322** | **3** | **2,373** |
| Braunig, V H (TX) | — | — | 13,497 | — | — | — | — | — | 155 |
| Deely, J T (TX) | 244,417 | 1,615 | — | — | — | — | 157 | 3 | — |
| J K Spruce (TX) | 300,609 | — | 245 | — | — | — | 165 | — | 2 |
| Leon Creek (TX) | — | — | –125 | — | — | — | — | — | — |
| Mission Road (TX) | — | — | –135 | — | — | — | — | — | — |
| Sommers, O W (TX) | — | 41 | 203,747 | — | — | — | — | * | 2,127 |
| Tuttle, W B (TX) | — | — | 7,169 | — | — | — | — | — | 89 |
| **San Diego Gas & Elec Co** | — | **53** | **347,807** | — | — | — | — | * | **3,704** |
| Division (CA) | — | — | — | — | — | — | — | — | — |
| El Cajon (CA) | — | — | 131 | — | — | — | — | — | 2 |
| Encina (CA) | — | 4 | 180,694 | — | — | — | — | * | 1,944 |
| Kearny (CA) | — | — | 1,602 | — | — | — | — | — | 26 |
| Leased Strg (CA) | — | — | — | — | — | — | — | — | — |
| Miramar (CA) | — | — | 681 | — | — | — | — | — | 11 |
| Naval Station (CA) | — | — | 434 | — | — | — | — | — | 6 |
| Naval Training Cnter (CA) | — | — | 248 | — | — | — | — | — | 4 |
| North Island (CA) | — | 49 | 44 | — | — | — | — | * | 1 |
| Silver Gate (CA) | — | — | — | — | — | — | — | — | — |
| South Bay (CA) | — | — | 163,973 | — | — | — | — | — | 1,710 |
| **San Miguel Elec Coop Inc** | **259,818** | **97** | — | — | — | — | **300** | * | — |
| San Miguel (TX) | 259,818 | 97 | — | — | — | — | 300 | * | — |
| **Santa Clara (City of)** | — | — | **4,580** | **5,854** | — | — | — | — | **67** |
| Black Butte (CA) | — | — | — | — | — | — | — | — | — |
| Cogen Plant (CA) | — | — | 4,580 | — | — | — | — | — | 67 |
| Gianera (CA) | — | — | — | — | — | — | — | — | — |
| Grizzly (CA) | — | — | — | 3,237 | — | — | — | — | — |
| Highline (CA) | — | — | — | — | — | — | — | — | — |
| Stony Gorge (CA) | — | — | — | 2,617 | — | — | — | — | — |
| **Savannah Elec & Pwr Co** | **90,801** | **775** | **1,460** | — | — | — | **43** | **2** | **16** |
| Boulevard (GA) | — | — | — | — | — | — | — | — | — |
| Kraft (GA) | 62,671 | — | 1,396 | — | — | — | 28 | — | 15 |
| McIntosh (GA) | 28,130 | 775 | 64 | — | — | — | 16 | 2 | 1 |
| Riverside (GA) | — | — | — | — | — | — | — | — | — |
| **Seattle (City of)** | — | — | — | **549,579** | — | — | — | — | — |
| Boundary (WA) | — | — | — | 223,230 | — | — | — | — | — |
| Cedar Falls (WA) | — | — | — | 6,199 | — | — | — | — | — |
| Diablo (WA) | — | — | — | 102,881 | — | — | — | — | — |
| Gorge (WA) | — | — | — | 110,244 | — | — | — | — | — |
| New Halem (WA) | — | — | — | –14 | — | — | — | — | — |
| Ross Dam (WA) | — | — | — | 103,003 | — | — | — | — | — |
| South Fork Tolt (WA) | — | — | — | 4,036 | — | — | — | — | — |
| **Seminole Electric Coop** | **627,204** | **30,988** | — | — | — | — | **249** | **4** | — |
| Seminole (FL) | 627,204 | 30,988 | — | — | — | — | 249 | 4 | — |
| **Sierra Pacific Power Co** | **283,190** | **604** | **198,770** | **4,540** | — | — | **127** | **2** | **1,992** |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Sierra Pacific Power Co** | | | | | | | | | |
| Battle Mt (NV) | — | — | — | — | — | — | — | * | — |
| Brunswick (NV) | — | -29 | — | — | — | — | — | * | — |
| Elko (NV) | — | — | — | — | — | — | — | — | — |
| Fallon (NV) | — | -1 | — | — | — | — | — | — | — |
| Farad (CA) | — | — | — | -4 | — | — | — | — | — |
| Fleish (NV) | — | — | — | 1,529 | — | — | — | — | — |
| Fort Churchill (NV) | — | — | 64,891 | — | — | — | — | — | 655 |
| Gabbs (NV) | — | -11 | — | — | — | — | — | * | — |
| Kings Beach (CA) | — | -8 | — | — | — | — | — | * | — |
| Lahontan (NV) | — | — | — | — | — | — | — | — | — |
| North Valmy (NV) | 283,190 | 507 | — | — | — | — | 127 | 1 | — |
| Pinon Pine (NV) | — | — | 60,622 | — | — | — | — | — | 487 |
| Portola (CA) | — | -23 | — | — | — | — | — | — | — |
| Tracy (NV) | — | 198 | 73,352 | — | — | — | — | 1 | 850 |
| Valley Road (NV) | — | -29 | — | — | — | — | — | * | — |
| Verdi (NV) | — | — | — | 1,731 | — | — | — | — | — |
| Washoe (NV) | — | — | — | 1,285 | — | — | — | — | — |
| Winnemucca (NV) | — | — | -95 | — | — | — | — | — | — |
| 26 Foot Drop (NV) | — | — | — | -1 | — | — | — | — | — |
| **Sikeston (City of)** | **128,318** | **15** | **—** | **—** | **—** | **—** | **81** | * | **—** |
| Coleman, E. P. (MO) | — | 9 | — | — | — | — | — | * | — |
| Sikeston (MO) | 128,318 | 6 | — | — | — | — | 81 | * | — |
| **So Carolina Elec & Gas Co** | **1,048,757** | **1,116** | **1,291** | **18,219** | **648,044** | **—** | **411** | **2** | **14** |
| Burton (SC) | — | — | — | — | — | — | — | — | — |
| Canadys (SC) | — | — | — | — | — | — | — | — | — |
| Coit (SC) | — | — | — | — | — | — | — | — | — |
| Columbia Hydro (SC) | — | — | — | 4,862 | — | — | — | — | — |
| Cope (SC) | 203,624 | 11 | — | — | — | — | 77 | * | — |
| Faber Place (SC) | — | — | — | — | — | — | — | — | — |
| Fairfield County (SC) | — | — | — | -8,419 | — | — | — | — | — |
| Hagood (SC) | — | 790 | 312 | — | — | — | — | 2 | 4 |
| Hardeeville (SC) | — | — | — | — | — | — | — | — | — |
| Mcmeekin (SC) | 135,967 | 171 | — | — | — | — | 49 | * | — |
| Neal Shoals (SC) | — | — | — | 2,885 | — | — | — | — | — |
| Parr (SC) | — | — | — | — | — | — | — | — | — |
| Parr Hydro (SC) | — | — | — | 7,519 | — | — | — | — | — |
| Saluda Hydro (SC) | — | — | — | 4,846 | — | — | — | — | — |
| Stevens Creek Hydro (GA) | — | — | — | 6,526 | — | — | — | — | — |
| SRS (SC) | 9,221 | 19 | — | — | — | — | 14 | * | — |
| Urquhart (SC) | 33,767 | 39 | 979 | — | — | — | 14 | * | 10 |
| V. C. Summer (SC) | — | — | — | — | 648,044 | — | — | — | — |
| Wateree (SC) | 353,612 | 86 | — | — | — | — | 139 | * | — |
| Williams (SC) | 312,566 | — | — | — | — | — | 118 | — | — |
| **So Carolina Pub Serv Auth** | **1,185,636** | **1,778** | **—** | **43,842** | **—** | **—** | **447** | **4** | **—** |
| Cross (SC) | 557,885 | 757 | — | — | — | — | 209 | 1 | — |
| Grainger, Dolphus M (SC) | 30,253 | 49 | — | — | — | — | 13 | * | — |
| Hilton Head (SC) | — | 143 | — | — | — | — | — | 1 | — |
| Jefferies (SC) | 115,697 | 245 | — | 13,500 | — | — | 45 | * | — |
| Myrtle Beach (SC) | — | 137 | — | — | — | — | — | 1 | — |
| Spillway (SC) | — | — | — | 1,246 | — | — | — | — | — |
| St Stephens (SC) | — | — | — | 29,096 | — | — | — | — | — |
| Winyah (SC) | 481,801 | 447 | — | — | — | — | 181 | 1 | — |
| **South Miss Elec Pwr Assoc** | **97,135** | **312** | **50,806** | **—** | **—** | **—** | **42** | **1** | **593** |
| Benndale (MS) | — | — | — | — | — | — | — | — | — |
| Morrow (MS) | 97,135 | 312 | — | — | — | — | 42 | 1 | — |
| Moselle (MS) | — | — | 50,806 | — | — | — | — | — | 593 |
| Paulding (MS) | — | — | — | — | — | — | — | — | — |
| **Southern Calif Edison Co** | **763,106** | **2,137** | **1,954** | **271,494** | **780,384** | **—** | **348** | **4** | **19** |
| Baker Dam (CA) | — | — | — | — | — | — | — | — | — |
| Big Creek 1 (CA) | — | — | — | 16,938 | — | — | — | — | — |
| Big Creek 2 (CA) | — | — | — | 15,821 | — | — | — | — | — |
| Big Creek 2a (CA) | — | — | — | 21,903 | — | — | — | — | — |
| Big Creek 3 (CA) | — | — | — | 65,823 | — | — | — | — | — |
| Big Creek 4 (CA) | — | — | — | 31,283 | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Southern Calif Edison Co** | | | | | | | | | |
| Big Creek 8 (CA) | — | — | — | 13,434 | — | — | — | — | — |
| Bishop Creek 2 (CA) | — | — | — | 2,163 | — | — | — | — | — |
| Bishop Creek 3 (CA) | — | — | — | 1,852 | — | — | — | — | — |
| Bishop Creek 4 (CA) | — | — | — | 1,942 | — | — | — | — | — |
| Bishop Creek 5 (CA) | — | — | — | 1,016 | — | — | — | — | — |
| Bishop Creek 6 (CA) | — | — | — | 753 | — | — | — | — | — |
| Borel (CA) | — | — | — | 6,342 | — | — | — | — | — |
| Dominguez Hills (CA) | — | — | — | — | — | — | — | — | — |
| Eastwood (CA) | — | — | — | 1,168 | — | — | — | — | — |
| Fontana (CA) | — | — | — | 696 | — | — | — | — | — |
| Kaweah 1 (CA) | — | — | — | 1,053 | — | — | — | — | — |
| Kaweah 2 (CA) | — | — | — | 1,130 | — | — | — | — | — |
| Kaweah 3 (CA) | — | — | — | 79 | — | — | — | — | — |
| Kern River 1 (CA) | — | — | — | 16,232 | — | — | — | — | — |
| Kern River 3 (CA) | — | — | — | 13,736 | — | — | — | — | — |
| Lundy (CA) | — | — | — | 886 | — | — | — | — | — |
| Lytle Creek (CA) | — | — | — | 305 | — | — | — | — | — |
| Mammoth Pool (CA) | — | — | — | 44,454 | — | — | — | — | — |
| Mill Creek 1 (CA) | — | — | — | 637 | — | — | — | — | — |
| Mill Creek 2&3 (CA) | — | — | — | — | — | — | — | — | — |
| Mill Creek 3 (CA) | — | — | — | 967 | — | — | — | — | — |
| Mohave (NV) | 763,106 | — | 1,954 | — | — | — | 348 | — | 19 |
| Ontario 1 (CA) | — | — | — | 283 | — | — | — | — | — |
| Ontario 2 (CA) | — | — | — | 117 | — | — | — | — | — |
| Pebbly Beach (CA) | — | 2,137 | — | — | — | — | — | 4 | — |
| Poole (CA) | — | — | — | 857 | — | — | — | — | — |
| Portal (CA) | — | — | — | 2,618 | — | — | — | — | — |
| Rush Creek (CA) | — | — | — | 3,873 | — | — | — | — | — |
| San Gorgonio (CA) | — | — | — | –5 | — | — | — | — | — |
| San Gorgonio (CA) | — | — | — | — | — | — | — | — | — |
| San Onofre (CA) | — | — | — | — | 780,384 | — | — | — | — |
| Santa Ana 1 (CA) | — | — | — | 1,225 | — | — | — | — | — |
| Santa Ana 3 (CA) | — | — | — | — | — | — | — | — | — |
| Sierra (CA) | — | — | — | 234 | — | — | — | — | — |
| Tule River (CA) | — | — | — | 1,679 | — | — | — | — | — |
| **Southern Ill Pwr Coop** | **109,578** | **378** | — | — | — | — | **65** | **1** | — |
| Marion (IL) | 109,578 | 378 | — | — | — | — | 65 | 1 | — |
| **Southern Indiana G & E Co** | **495,296** | — | **3,761** | — | — | — | **230** | — | **40** |
| A. B. Brown (IN) | 218,253 | — | 3,449 | — | — | — | 101 | — | 35 |
| Broadway (IN) | — | — | 111 | — | — | — | — | — | 2 |
| Culley (IN) | 221,754 | — | 201 | — | — | — | 104 | — | 2 |
| Northeast (IN) | — | — | — | — | — | — | — | — | — |
| Warrick (IN) | 55,289 | — | — | — | — | — | 25 | — | — |
| **Southwestern Elec Pwr Co** | **1,250,081** | **5,543** | **159,212** | — | — | — | **768** | **10** | **1,621** |
| Arsenal Hill (LA) | — | — | 5,621 | — | — | — | — | — | 64 |
| Flint Creek (AR) | 311,020 | 905 | — | — | — | — | 192 | 2 | — |
| Knox Lee (TX) | — | 3,811 | 86,063 | — | — | — | — | 6 | 870 |
| Lieberman (LA) | — | — | — | — | — | — | — | — | — |
| Lone Star (TX) | — | — | — | — | — | — | — | — | — |
| Pirkey (TX) | 21,479 | — | 1,731 | — | — | — | 20 | — | 20 |
| Welsh (TX) | 917,582 | 827 | — | — | — | — | 555 | 2 | — |
| Wilkes (TX) | — | — | 65,797 | — | — | — | — | — | 667 |
| **Southwestern Pub Serv Co** | **955,238** | — | **510,952** | — | — | — | **584** | — | **5,870** |
| Carlsbad (NM) | — | — | 62 | — | — | — | — | — | 2 |
| Cunningham (NM) | — | — | 150,577 | — | — | — | — | — | 1,555 |
| Harrington (TX) | 621,204 | — | 1,363 | — | — | — | 340 | — | 16 |
| Jones (TX) | — | — | 140,654 | — | — | — | — | — | 1,485 |
| Maddox (NM) | — | — | 18,769 | — | — | — | — | — | 198 |
| Moore County (TX) | — | — | –125 | — | — | — | — | — | — |
| Nichols (TX) | — | — | 127,904 | — | — | — | — | — | 1,386 |
| Plant X (TX) | — | — | 70,948 | — | — | — | — | — | 1,215 |
| Riverview (TX) | — | — | 193 | — | — | — | — | — | 3 |
| Tolk Station (TX) | 334,034 | — | 607 | — | — | — | 244 | — | 10 |
| Tucumcari (NM) | — | — | — | — | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Springfield (City of)** | **139,615** | **-333** | **—** | **—** | **—** | **—** | **76** | * | **—** |
| Dallman (IL) | 139,615 | 57 | — | — | — | — | 76 | * | — |
| Factory (IL) | — | 3 | — | — | — | — | — | * | — |
| Interstate (IL) | — | — | — | — | — | — | — | — | — |
| Lakeside (IL) | — | -396 | — | — | — | — | — | — | — |
| Reynolds (IL) | — | 3 | — | — | — | — | — | * | — |
| **Springfield (City of)** | **172,639** | **—** | **1,901** | **—** | **—** | **—** | **104** | **—** | **22** |
| James River (MO) | 77,257 | — | 1,495 | — | — | — | 46 | — | 17 |
| Main Street (MO) | — | — | — | — | — | — | — | — | — |
| Southwest (MO) | 95,382 | — | 406 | — | — | — | 58 | — | 5 |
| **St Joseph Lgt & Pwr Co** | **51,431** | **231** | **1,090** | **—** | **—** | **—** | **32** | **1** | **24** |
| Lake Road (MO) | 51,431 | 231 | 1,090 | — | — | — | 32 | 1 | 24 |
| **Sunflower Elec Coop** | **185,080** | **—** | **2,680** | **—** | **—** | **—** | **110** | **—** | **36** |
| Garden City (KS) | — | — | 1,811 | — | — | — | — | — | 27 |
| Holcomb (KS) | 185,080 | — | 869 | — | — | — | 110 | — | 9 |
| **Superior Wtr Lt Pwr Co** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** |
| Winslow (WI) | — | — | — | — | — | — | — | — | — |
| **Systems Energy Resources Inc** | **—** | **—** | **—** | **—** | **633,018** | **—** | **—** | **—** | **—** |
| Grand Gulf (MS) | — | — | — | — | 633,018 | — | — | — | — |
| **Tacoma (City of)** | **—** | **—** | **—** | **331,345** | **—** | **—** | **—** | **—** | **—** |
| Alder (WA) | — | — | — | 29,364 | — | — | — | — | — |
| Cushman 1 (WA) | — | — | — | 16,988 | — | — | — | — | — |
| Cushman 2 (WA) | — | — | — | 35,471 | — | — | — | — | — |
| La Grande (WA) | — | — | — | 43,029 | — | — | — | — | — |
| Mayfield (WA) | — | — | — | 87,494 | — | — | — | — | — |
| Mossyrock (WA) | — | — | — | 113,406 | — | — | — | — | — |
| Steam Plant 2 (WA) | — | — | — | — | — | — | — | — | — |
| Wynoochee (WA) | — | — | — | 5,593 | — | — | — | — | — |
| **Tallahassee (City of)** | **—** | **—** | **106,973** | **2,094** | **—** | **—** | **—** | **—** | **1,101** |
| Hopkins, Arvah B (FL) | — | — | 106,973 | — | — | — | — | — | 1,101 |
| Jackson Bluff (FL) | — | — | — | 2,094 | — | — | — | — | — |
| Purdom, S O (FL) | — | — | — | — | — | — | — | — | — |
| **Tampa Electric Co** | **1,046,221** | **9,035** | **—** | **—** | **—** | **—** | **489** | **27** | **—** |
| Big Bend (FL) | 602,098 | 362 | — | — | — | — | 279 | 8 | — |
| Coal Storage (FL) | — | — | — | — | — | — | — | — | — |
| Gannon, F J (FL) | 312,837 | 2,195 | — | — | — | — | 153 | 5 | — |
| Hookers Point (FL) | — | 2,078 | — | — | — | — | — | 8 | — |
| Polk (FL) | 131,286 | 3,314 | — | — | — | — | 58 | 5 | — |
| S Dinner Lk (FL) | — | — | — | — | — | — | — | — | — |
| S Phillips (FL) | — | 1,086 | — | — | — | — | — | 2 | — |
| **Taunton (City of)** | **—** | **976** | **—** | **—** | **—** | **—** | **—** | **3** | **—** |
| Cleary, B F (MA) | — | 976 | — | — | — | — | — | 3 | — |
| **Tennessee Valley Auth** | **6,636,673** | **31,882** | **—** | **1,086,835** | **3,526,512** | **—** | **2,851** | **57** | **—** |
| Allen (TN) | 259,803 | 11,990 | — | — | — | — | 136 | 23 | — |
| Apalachia (TN) | — | — | — | 33,406 | — | — | — | — | — |
| Blue Ridge (GA) | — | — | — | 1,243 | — | — | — | — | — |
| Boone (TN) | — | — | — | 3,458 | — | — | — | — | — |
| Browns Ferry (AL) | — | — | — | — | 1,479,633 | — | — | — | — |
| Bull Run (TN) | 470,285 | 2,625 | — | — | — | — | 173 | 4 | — |
| Chatuge (NC) | — | — | — | 2,314 | — | — | — | — | — |
| Cherokee (TN) | — | — | — | 2,414 | — | — | — | — | — |
| Chickamauga (TN) | — | — | — | 53,902 | — | — | — | — | — |
| Colbert (AL) | 356,870 | 2,731 | — | — | — | — | 158 | 5 | — |
| Cumberland (TN) | 1,354,445 | 3,440 | — | — | — | — | 577 | 6 | — |
| Douglas (TN) | — | — | — | 15,101 | — | — | — | — | — |
| Fontana (NC) | — | — | — | 71,180 | — | — | — | — | — |
| Fort Loudoun (TN) | — | — | — | 56,025 | — | — | — | — | — |
| Fort Patrick Henry (TN) | — | — | — | 2,932 | — | — | — | — | — |
| Gallatin (TN) | 554,403 | 2,665 | — | — | — | — | 254 | 4 | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (*Mcf*) |
| **Tennessee Valley Auth** | | | | | | | | | |
| Great Falls (TN) | — | — | — | 23,358 | — | — | — | — | — |
| Guntersville (AL) | — | — | — | 66,804 | — | — | — | — | — |
| Hiwassee (NC) | — | — | — | 13,893 | — | — | — | — | — |
| Johnsonville (TN) | 344,773 | 4,348 | — | — | — | — | 150 | 8 | — |
| Kentucky (KY) | — | — | — | 77,376 | — | — | — | — | — |
| Kingston (TN) | 751,582 | 481 | — | — | — | — | 296 | 1 | — |
| Melton Hill (TN) | — | — | — | 7,437 | — | — | — | — | — |
| Nickajack (TN) | — | — | — | 52,149 | — | — | — | — | — |
| Norris (TN) | — | — | — | 19,801 | — | — | — | — | — |
| Nottely (GA) | — | — | — | 1,895 | — | — | — | — | — |
| Ocoee 1 (TN) | — | — | — | 5,386 | — | — | — | — | — |
| Ocoee 2 (TN) | — | — | — | 11,213 | — | — | — | — | — |
| Ocoee 3 (TN) | — | — | — | 13,877 | — | — | — | — | — |
| Paradise (KY) | 1,024,278 | 390 | — | — | — | — | 433 | 1 | — |
| Pickwick (TN) | — | — | — | 121,298 | — | — | — | — | — |
| Raccoon Mountain (TN) | — | — | — | −34,360 | — | — | — | — | — |
| Sequoyah (TN) | — | — | — | — | 1,540,773 | — | — | — | — |
| Sevier, John (TN) | 340,206 | 260 | — | — | — | — | 130 | * | — |
| Shawnee (KY) | 584,996 | 827 | — | — | — | — | 268 | 1 | — |
| South Holston (TN) | — | — | — | 1,137 | — | — | — | — | — |
| Tims Ford (TN) | — | — | — | 10,559 | — | — | — | — | — |
| Watauga (TN) | — | — | — | 1,587 | — | — | — | — | — |
| Watts Bar (TN) | −73 | — | — | — | — | — | — | — | — |
| Watts Bar (TN) | — | — | — | 63,519 | — | — | — | — | — |
| Watts Bar (TN) | — | — | — | — | 506,106 | — | — | — | — |
| Wheeler (AL) | — | — | — | 125,111 | — | — | — | — | — |
| Widows Creek (AL) | 595,105 | 2,125 | — | — | — | — | 275 | 4 | — |
| Wilbur (TN) | — | — | — | 130 | — | — | — | — | — |
| Wilson (AL) | — | — | — | 262,690 | — | — | — | — | — |
| **Terrebonne Parish Consol Govt** | — | −27 | −245 | — | — | — | — | — | 1 |
| Houma (LA) | — | −27 | −245 | — | — | — | — | — | 1 |
| **Texas Mun Power Agency** | **246,496** | — | — | — | — | — | **155** | — | * |
| Gibbons Creek (TX) | 246,496 | — | — | — | — | — | 155 | — | * |
| **Texas Utilities Elec Co** | **3,016,855** | **8,716** | **1,558,513** | — | **1,492,977** | — | **2,583** | **17** | **16,014** |
| Big Brown (TX) | 376,795 | — | 1,247 | — | — | — | 314 | — | 13 |
| Collin (TX) | — | 697 | 4,918 | — | — | — | — | 2 | 74 |
| Comanche Peak (TX) | — | — | — | — | 1,492,977 | — | — | — | — |
| De Cordova (TX) | — | — | 53,676 | — | — | — | — | — | 520 |
| Eagle Mountain (TX) | — | — | 14,524 | — | — | — | — | — | 191 |
| Graham (TX) | — | — | 119,547 | — | — | — | — | — | 1,172 |
| Handley (TX) | — | — | 13,341 | — | — | — | — | — | 262 |
| Lake Creek (TX) | — | — | 41,811 | — | — | — | — | — | 431 |
| Lake Hubbard (TX) | — | — | 121,873 | — | — | — | — | — | 1,275 |
| Martin Lake (TX) | 1,309,474 | 764 | — | — | — | — | 1,111 | 1 | — |
| Monticello (TX) | 952,235 | 1,887 | — | — | — | — | 842 | 4 | — |
| Morgan Creek (TX) | — | — | 96,793 | — | — | — | — | — | 1,009 |
| Mountain Creek (TX) | — | — | 49,079 | — | — | — | — | — | 559 |
| North Lake (TX) | — | — | 76,688 | — | — | — | — | — | 823 |
| North Main (TX) | — | — | −94 | — | — | — | — | — | — |
| Parkdale (TX) | — | — | −305 | — | — | — | — | — | 4 |
| Permian Basin (TX) | — | — | 217,627 | — | — | — | — | — | 2,187 |
| River Crest (TX) | — | — | −110 | — | — | — | — | — | * |
| Sandow (TX) | 378,351 | 10 | — | — | — | — | 316 | * | — |
| Stryker Creek (TX) | — | 6 | 153,241 | — | — | — | — | * | 1,525 |
| Tradinghouse Creek (TX) | — | — | 355,528 | — | — | — | — | — | 3,461 |
| Trinidad (TX) | — | — | 9,096 | — | — | — | — | — | 101 |
| Valley (TX) | — | 5,352 | 230,033 | — | — | — | — | 10 | 2,404 |
| **Texas-New Mexico Power Co** | **154,389** | — | — | — | — | — | **135** | — | — |
| Lordsburg (NM) | — | — | — | — | — | — | — | — | — |
| TNP One (TX) | 154,389 | — | — | — | — | — | 135 | — | — |
| **Toledo Edison Co (The)** | **204,093** | — | — | — | **603,187** | — | **120** | — | — |
| Acme (OH) | — | — | — | — | — | — | — | — | — |
| Bay Shore (OH) | 204,093 | — | — | — | — | — | 120 | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Toledo Edison Co (The)** | | | | | | | | | |
| Davis-Besse (OH) | — | — | — | — | 603,187 | — | — | — | — |
| Richland (OH) | — | — | — | — | — | — | — | — | — |
| Stryker (OH) | — | — | — | — | — | — | — | — | — |
| **Tri-state G & T Assn Inc** | **737,822** | **389** | **618** | **—** | **—** | **—** | **372** | **1** | **6** |
| Burlington (CO) | — | 348 | — | — | — | — | — | 1 | — |
| Craig (CO) | 681,130 | — | 618 | — | — | — | 342 | — | 6 |
| Nucla (CO) | 56,692 | 41 | — | — | — | — | 30 | * | — |
| **Tucson Electric Power Co** | **521,736** | **109** | **2,100** | **—** | **—** | **—** | **289** | * | **25** |
| De Moss Petrie (AZ) | — | — | — | — | — | — | — | — | — |
| Irvington (AZ) | 42,813 | — | 2,046 | — | — | — | 23 | — | 24 |
| North Loop (AZ) | — | — | 54 | — | — | — | — | — | 2 |
| Springerville (AZ) | 478,923 | 109 | — | — | — | — | 266 | * | — |
| **Turlock Irrigation Dist** | **—** | **—** | **71** | **56,629** | **—** | **—** | **—** | **—** | **3** |
| Almond (CA) | — | — | 100 | — | — | — | — | — | 2 |
| Hickman (CA) | — | — | — | –4 | — | — | — | — | — |
| Lagrange (CA) | — | — | — | 2,733 | — | — | — | — | — |
| New Don Pedro (CA) | — | — | — | 53,412 | — | — | — | — | — |
| Turlock Lake (CA) | — | — | — | 176 | — | — | — | — | — |
| Uppr Dawson (CA) | — | — | — | 312 | — | — | — | — | — |
| Walnut (CA) | — | — | –29 | — | — | — | — | — | * |
| **Union Electric Co** | **1,910,259** | **2,335** | **7,151** | **184,539** | **777,322** | **6,458** | **1,159** | **6** | **85** |
| Callaway (MO) | — | — | — | — | 777,322 | — | — | — | — |
| Howard Bend (MO) | — | –16 | — | — | — | — | — | — | — |
| Jefferson City (MO) | — | 166 | — | — | — | — | — | 1 | — |
| Keokuk (IA) | — | — | — | 104,603 | — | — | — | — | — |
| Kirksville (MO) | — | — | — | — | — | — | — | — | — |
| Labadie (MO) | 1,111,969 | 329 | — | — | — | — | 656 | 1 | — |
| Meramec (MO) | 115,191 | –23 | 7,149 | — | — | 2,541 | 79 | * | 85 |
| Mexico (MO) | — | 143 | — | — | — | — | — | * | — |
| Moberly (MO) | — | 172 | — | — | — | — | — | 1 | — |
| Moreau (MO) | — | 109 | — | — | — | — | — | * | — |
| Osage (MO) | — | — | — | 80,107 | — | — | — | — | — |
| Portable (MO) | — | — | — | — | — | — | — | — | — |
| Rush Island (MO) | 282,644 | 1,529 | — | — | — | — | 177 | 3 | — |
| Sioux (MO) | 400,455 | 13 | — | — | — | 3,917 | 247 | * | — |
| Taum Sauk (MO) | — | — | — | –171 | — | — | — | — | — |
| Venice No. 2 (IL) | — | –87 | — | — | — | — | — | * | — |
| Viaduct (MO) | — | — | 2 | — | — | — | — | — | 1 |
| **United Illuminating Co** | **—** | **460,283** | **—** | **—** | **—** | **—** | **—** | **715** | **—** |
| Bridgeport Harbor (CT) | — | 204,200 | — | — | — | — | — | 329 | — |
| English (CT) | — | — | — | — | — | — | — | — | — |
| New Haven Harbor (CT) | — | 256,083 | — | — | — | — | — | 386 | — |
| **United Power Assn** | **102,242** | **168** | **—** | **—** | **—** | **15,954** | **84** | * | **—** |
| Cambridge (MN) | — | 54 | — | — | — | — | — | * | — |
| Elk River (MN) | — | — | — | — | — | 15,954 | — | — | — |
| Maple Lake (MN) | — | 49 | — | — | — | — | — | * | — |
| Rock Lake (MN) | — | 50 | — | — | — | — | — | * | — |
| Stanton (ND) | 102,242 | 15 | — | — | — | — | 84 | * | — |
| **Utilicorp United Inc** | **218,371** | **254** | **1,354** | **—** | **—** | **—** | **100** | * | **22** |
| Green, Ralph (MO) | — | — | 90 | — | — | — | — | — | 3 |
| Greenwood (MO) | — | — | 1,277 | — | — | — | — | — | 20 |
| Kci (MO) | — | — | –13 | — | — | — | — | — | — |
| Nevada (MO) | — | –13 | — | — | — | — | — | — | — |
| Sibley (MO) | 218,371 | 267 | — | — | — | — | 100 | * | — |
| **UtiliCorp United Inc** | **19,165** | **–57** | **31,077** | **—** | **—** | **—** | **11** | * | **480** |
| Cimarron River (KS) | — | — | –641 | — | — | — | — | — | * |
| Clark, W N (CO) | 19,165 | — | — | — | — | — | 11 | — | — |
| Clifton (KS) | — | — | 604 | — | — | — | — | — | 14 |
| Judson Large (KS) | — | — | 31,381 | — | — | — | — | — | 447 |
| Mullergren, Arthur (KS) | — | — | –194 | — | — | — | — | — | 14 |
| Pueblo (CO) | — | –23 | –73 | — | — | — | — | * | 5 |
| Rocky Ford (CO) | — | –34 | — | — | — | — | — | * | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **USBR-Great Plains Region** | — | — | — | **202,050** | — | — | — | — | — |
| Alcova (WY) | — | — | — | 4,369 | — | — | — | — | — |
| Big Thompson (CO) | — | — | — | –18 | — | — | — | — | — |
| Boysen (WY) | — | — | — | 5,369 | — | — | — | — | — |
| Buffalo Bill (WY) | — | — | — | 3,544 | — | — | — | — | — |
| Canyon Ferry (MT) | — | — | — | 37,057 | — | — | — | — | — |
| Estes (CO) | — | — | — | 8,674 | — | — | — | — | — |
| Flatiron (CO) | — | — | — | 12,649 | — | — | — | — | — |
| Fremont Canyon (WY) | — | — | — | 12,060 | — | — | — | — | — |
| Glendo (WY) | — | — | — | –91 | — | — | — | — | — |
| Green Mountain (CO) | — | — | — | 1,977 | — | — | — | — | — |
| Guernsey (WY) | — | — | — | –28 | — | — | — | — | — |
| Heart Mountain (WY) | — | — | — | –31 | — | — | — | — | — |
| Kortes (WY) | — | — | — | 10,240 | — | — | — | — | — |
| Marys Lake (CO) | — | — | — | 3,382 | — | — | — | — | — |
| Mount Elbert (CO) | — | — | — | 235 | — | — | — | — | — |
| Pilot Butte (WY) | — | — | — | –7 | — | — | — | — | — |
| Pole Hill (CO) | — | — | — | 13,480 | — | — | — | — | — |
| Seminoe (WY) | — | — | — | 10,593 | — | — | — | — | — |
| Shoshone (WY) | — | — | — | 855 | — | — | — | — | — |
| Spirit Mountain (WY) | — | — | — | –68 | — | — | — | — | — |
| Yellowtail (MT) | — | — | — | 77,809 | — | — | — | — | — |
| **USBR-Lower Colorado Region** | — | — | — | **472,733** | — | — | — | — | — |
| Davis (AZ) | — | — | — | 85,760 | — | — | — | — | — |
| Hoover (AZ) | — | — | — | 198,487 | — | — | — | — | — |
| Hoover (NV) | — | — | — | 157,446 | — | — | — | — | — |
| Parker (CA) | — | — | — | 31,040 | — | — | — | — | — |
| **USBR-Mid Pacific Region** | — | — | — | **579,429** | — | — | — | — | — |
| Folsom (CA) | — | — | — | 80,929 | — | — | — | — | — |
| Judge F Carr (CA) | — | — | — | 23,727 | — | — | — | — | — |
| Keswick (CA) | — | — | — | 48,429 | — | — | — | — | — |
| Lewiston (CA) | — | — | — | 227 | — | — | — | — | — |
| New Melones (CA) | — | — | — | 82,465 | — | — | — | — | — |
| Nimbus (CA) | — | — | — | 7,391 | — | — | — | — | — |
| O Neill (CA) | — | — | — | –9,800 | — | — | — | — | — |
| Shasta (CA) | — | — | — | 278,285 | — | — | — | — | — |
| Spring Creek (CA) | — | — | — | 42,548 | — | — | — | — | — |
| Stampede (CA) | — | — | — | 395 | — | — | — | — | — |
| Trinity (CA) | — | — | — | 24,833 | — | — | — | — | — |
| **USBR-Pacific NW Region** | — | — | — | **2,258,139** | — | — | — | — | — |
| Anderson Ranch (ID) | — | — | — | 13,150 | — | — | — | — | — |
| Black Canyon (ID) | — | — | — | 5,275 | — | — | — | — | — |
| Boise River Div (ID) | — | — | — | — | — | — | — | — | — |
| Chandler (WA) | — | — | — | 7,732 | — | — | — | — | — |
| Grand Coulee (WA) | — | — | — | 2,061,060 | — | — | — | — | — |
| Green Springs (OR) | — | — | — | 5,589 | — | — | — | — | — |
| Hungry Horse (MT) | — | — | — | 81,567 | — | — | — | — | — |
| Minidoka (ID) | — | — | — | 15,372 | — | — | — | — | — |
| Palisades (ID) | — | — | — | 61,209 | — | — | — | — | — |
| Roza (WA) | — | — | — | 7,185 | — | — | — | — | — |
| **USBR-Upper Colorado Region** | — | — | — | **487,702** | — | — | — | — | — |
| Blue Mesa (CO) | — | — | — | 8,710 | — | — | — | — | — |
| Crystal (CO) | — | — | — | 2,887 | — | — | — | — | — |
| Deer Creek (UT) | — | — | — | 1,813 | — | — | — | — | — |
| Elephant Butte (NM) | — | — | — | 4,186 | — | — | — | — | — |
| Flaming Gorge (UT) | — | — | — | 59,358 | — | — | — | — | — |
| Fontenelle (WY) | — | — | — | 5,052 | — | — | — | — | — |
| Glen Canyon (AZ) | — | — | — | 389,829 | — | — | — | — | — |
| Lower Molina (CO) | — | — | — | 1,470 | — | — | — | — | — |
| McPhee (CO) | — | — | — | 171 | — | — | — | — | — |
| Morrow Point (CO) | — | — | — | 11,983 | — | — | — | — | — |
| Towaoc (CO) | — | — | — | — | — | — | — | — | — |
| Upper Molina (CO) | — | — | — | 2,243 | — | — | — | — | — |
| **USCE-Fort Worth District** | — | — | — | **22,927** | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **USCE-Fort Worth District** | | | | | | | | | |
| R D Willis (TX) | — | — | — | 425 | — | — | — | — | — |
| Sam Rayburn (TX) | — | — | — | 21,091 | — | — | — | — | — |
| Whitney (TX) | — | — | — | 1,411 | — | — | — | — | — |
| **USCE-Hartwell Power Plant** | — | — | — | **33,056** | — | — | — | — | — |
| Hartwell (GA) | — | — | — | 33,056 | — | — | — | — | — |
| **USCE-J Strom Thur Pwr Plt** | — | — | — | **41,650** | — | — | — | — | — |
| J Strom Thurmond (SC) | — | — | — | 41,650 | — | — | — | — | — |
| **USCE-Kansas City Dist** | — | — | — | **55,702** | — | — | — | — | — |
| Harry S Truman (MO) | — | — | — | 45,971 | — | — | — | — | — |
| Stockton (MO) | — | — | — | 9,731 | — | — | — | — | — |
| **USCE-Little Rock** | — | — | — | **278,948** | — | — | — | — | — |
| Beaver (AR) | — | — | — | 3,382 | — | — | — | — | — |
| Bull Shoals (AR) | — | — | — | 81,767 | — | — | — | — | — |
| Dardanelle (AR) | — | — | — | 62,060 | — | — | — | — | — |
| Greers Ferry (AR) | — | — | — | 26,562 | — | — | — | — | — |
| Norfork (AR) | — | — | — | 28,381 | — | — | — | — | — |
| Ozark (AR) | — | — | — | 35,985 | — | — | — | — | — |
| Table Rock (MO) | — | — | — | 40,811 | — | — | — | — | — |
| **USCE-Missouri River District** | — | — | — | **786,057** | — | — | — | — | — |
| Big Bend (SD) | — | — | — | 75,123 | — | — | — | — | — |
| Fort Peck (MT) | — | — | — | 108,867 | — | — | — | — | — |
| Fort Randall (SD) | — | — | — | 131,295 | — | — | — | — | — |
| Garrison (ND) | — | — | — | 214,518 | — | — | — | — | — |
| Gavins Point (NE) | — | — | — | 52,380 | — | — | — | — | — |
| Oahe (SD) | — | — | — | 203,874 | — | — | — | — | — |
| **USCE-Mobile District** | — | — | — | **181,734** | — | — | — | — | — |
| Allatoona (GA) | — | — | — | 12,403 | — | — | — | — | — |
| Buford (GA) | — | — | — | 5,504 | — | — | — | — | — |
| Carters (GA) | — | — | — | 24,518 | — | — | — | — | — |
| J Woodruff (FL) | — | — | — | 20,519 | — | — | — | — | — |
| Jones Bluff (AL) | — | — | — | 36,336 | — | — | — | — | — |
| Millers Ferry (AL) | — | — | — | 31,217 | — | — | — | — | — |
| Walter F George (GA) | — | — | — | 41,271 | — | — | — | — | — |
| West Point (GA) | — | — | — | 9,966 | — | — | — | — | — |
| **USCE-Nashville** | — | — | — | **366,788** | — | — | — | — | — |
| Barkley (KY) | — | — | — | 51,831 | — | — | — | — | — |
| Center Hill (TN) | — | — | — | 67,259 | — | — | — | — | — |
| Cheatham (TN) | — | — | — | 20,422 | — | — | — | — | — |
| Cordell Hull (TN) | — | — | — | 40,262 | — | — | — | — | — |
| Dale Hollow (TN) | — | — | — | 15,325 | — | — | — | — | — |
| J Percy Priest (TN) | — | — | — | 10,621 | — | — | — | — | — |
| Laurel (KY) | — | — | — | 4,218 | — | — | — | — | — |
| Old Hickory (TN) | — | — | — | 62,855 | — | — | — | — | — |
| Wolf Creek (KY) | — | — | — | 93,995 | — | — | — | — | — |
| **USCE-North Pacific Div** | — | — | — | **5,987,895** | — | — | — | — | — |
| Albeni Falls (ID) | — | — | — | 16,164 | — | — | — | — | — |
| Big Cliff (OR) | — | — | — | 5,200 | — | — | — | — | — |
| Bonneville (OR) | — | — | — | 582,492 | — | — | — | — | — |
| Chief Joseph (WA) | — | — | — | 1,154,868 | — | — | — | — | — |
| Cougar (OR) | — | — | — | 4,429 | — | — | — | — | — |
| Detroit (OR) | — | — | — | 16,211 | — | — | — | — | — |
| Dexter (OR) | — | — | — | 4,315 | — | — | — | — | — |
| Dworshak (ID) | — | — | — | 286,447 | — | — | — | — | — |
| Foster (OR) | — | — | — | 8,772 | — | — | — | — | — |
| Green Peter (OR) | — | — | — | 10,249 | — | — | — | — | — |
| Hills Creek (OR) | — | — | — | 7,493 | — | — | — | — | — |
| Ice Harbor (WA) | — | — | — | 245,472 | — | — | — | — | — |
| John Day (OR) | — | — | — | 1,092,491 | — | — | — | — | — |
| Libby (MT) | — | — | — | 235,852 | — | — | — | — | — |
| Little Goose (WA) | — | — | — | 257,226 | — | — | — | — | — |
| Lookout Point (OR) | — | — | — | 13,879 | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **USCE-North Pacific Div** | | | | | | | | | |
| Lost Creek (OR) | — | — | — | 17,196 | — | — | — | — | — |
| Lower Granite (WA) | — | — | — | 258,984 | — | — | — | — | — |
| Lower Monumental (WA) | — | — | — | 282,272 | — | — | — | — | — |
| McNary (OR) | — | — | — | 631,284 | — | — | — | — | — |
| The Dalles (WA) | — | — | — | 856,599 | — | — | — | — | — |
| **USCE-R B Russell** | — | — | — | **33,957** | — | — | — | — | — |
| R B Russell (GA) | — | — | — | 33,957 | — | — | — | — | — |
| **USCE-Tulsa District** | — | — | — | **247,228** | — | — | — | — | — |
| Broken Bow (OK) | — | — | — | 19,464 | — | — | — | — | — |
| Denison (TX) | — | — | — | 5,600 | — | — | — | — | — |
| Eufaula (OK) | — | — | — | 38,476 | — | — | — | — | — |
| Fort Gibson (OK) | — | — | — | 30,636 | — | — | — | — | — |
| Keystone (OK) | — | — | — | 42,242 | — | — | — | — | — |
| Robert S Kerr (OK) | — | — | — | 76,759 | — | — | — | — | — |
| Tenkiller Ferry (OK) | — | — | — | 16,025 | — | — | — | — | — |
| Webbers Falls (OK) | — | — | — | 18,026 | — | — | — | — | — |
| **USCE-Vicksburg District** | — | — | — | **39,184** | — | — | — | — | — |
| Blakely Mountain (AR) | — | — | — | 23,192 | — | — | — | — | — |
| Degray (AR) | — | — | — | 12,457 | — | — | — | — | — |
| Narrows (AR) | — | — | — | 3,535 | — | — | — | — | — |
| **USCE-Wilmington** | — | — | — | **32,677** | — | — | — | — | — |
| John H Kerr (VA) | — | — | — | 30,935 | — | — | — | — | — |
| Philpott (VA) | — | — | — | 1,742 | — | — | — | — | — |
| **Vero Beach (City of)** | — | **5,393** | **11,358** | — | — | — | — | **12** | **114** |
| Municipal Plant (FL) | — | 5,393 | 11,358 | — | — | — | — | 12 | 114 |
| **Vineland (City of)** | **677** | **826** | — | — | — | — | * | **2** | — |
| Down, Howard (NJ) | 677 | 742 | — | — | — | — | * | 2 | — |
| West (NJ) | — | 84 | — | — | — | — | — | * | — |
| **Virginia Elec & Power Co** | **2,805,631** | **225,401** | **211,325** | **-5,695** | **2,320,927** | — | **1,092** | **356** | **1,927** |
| Bath County (VA) | — | — | — | -56,346 | — | — | — | — | — |
| Bell Meade (VA) | — | — | — | — | — | — | — | — | — |
| Bremo Bluff (VA) | 97,053 | 94 | — | — | — | — | 41 | * | — |
| Chesapeake (VA) | 331,176 | 278 | — | — | — | — | 126 | * | — |
| Chesterfield (VA) | 655,575 | 2,049 | 204,821 | — | — | — | 246 | 3 | 1,863 |
| Clover (VA) | 527,175 | 356 | — | — | — | — | 201 | 1 | — |
| Cushaw (VA) | — | — | — | 1,487 | — | — | — | — | — |
| Darbytown (VA) | — | 64 | 22 | — | — | — | — | * | * |
| Gaston (NC) | — | — | — | 22,969 | — | — | — | — | — |
| Gravel Neck (VA) | — | 603 | — | — | — | — | — | 1 | — |
| Kitty Hawk (NC) | — | — | — | — | — | — | — | — | — |
| Low Moor (VA) | — | — | — | — | — | — | — | — | — |
| Mt Storm (WV) | 896,722 | 1,630 | — | — | — | — | 359 | 3 | — |
| North Anna (VA) | — | — | — | 118 | 1,220,027 | — | — | — | — |
| North Branch (WV) | — | — | — | — | — | — | — | — | — |
| Northern Neck (VA) | — | — | — | — | — | — | — | — | — |
| Possum Point (VA) | 144,290 | 382 | — | — | — | — | 61 | 1 | — |
| Roanoke Rapids (NC) | — | — | — | 26,077 | — | — | — | — | — |
| Surry (VA) | — | — | — | — | 1,100,900 | — | — | — | — |
| Yktn Term A (VA) | — | — | — | — | — | — | — | — | — |
| Yorktown (VA) | 153,640 | 219,945 | 6,482 | — | — | — | 59 | 347 | 63 |
| 1st Energy (VA) | — | — | — | — | — | — | — | — | — |
| **Vt Yankee Nuclear Pr Corp** | — | — | — | — | **355,269** | — | — | — | — |
| Vt. Yankee (VT) | — | — | — | — | 355,269 | — | — | — | — |
| **Wash Pub Pwr Supply Systm** | — | — | — | **3,655** | **701,567** | — | — | — | — |
| Packwood (WA) | — | — | — | 3,655 | — | — | — | — | — |
| WNP-2 (WA) | — | — | — | — | 701,567 | — | — | — | — |
| **Waverly (City of)** | — | — | — | **179** | — | **11** | — | — | — |
| East Hydro (IA) | — | — | — | 179 | — | — | — | — | — |
| East Plant (IA) | — | — | — | — | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Waverly (City of)** | | | | | | | | | |
| North Plant (IA) | — | — | — | — | — | — | — | — | — |
| Skeets 1 (IA) | — | — | — | — | — | 11 | — | — | — |
| **West Penn Power Co** | **791,785** | **487** | **999** | **9,291** | **—** | **—** | **312** | **1** | **10** |
| Armstrong (PA) | 161,795 | 177 | — | — | — | — | 65 | * | — |
| Hatfields Ferry (PA) | 561,652 | 310 | — | — | — | — | 218 | 1 | — |
| Lake Lynn (WV) | — | — | — | 9,291 | — | — | — | — | — |
| Mitchell (PA) | 68,338 | — | 999 | — | — | — | 29 | — | 10 |
| Springdale (PA) | — | — | — | — | — | — | — | — | — |
| **West Texas Utilities Co** | **391,252** | **313** | **204,354** | **—** | **—** | **—** | **241** | **1** | **2,146** |
| Abilene (TX) | — | — | — | — | — | — | — | — | — |
| Fort Phantom (TX) | — | — | 79,542 | — | — | — | — | — | 836 |
| Ft Stockton (TX) | — | — | — | — | — | — | — | — | — |
| Lake Pauline (TX) | — | — | — | — | — | — | — | — | — |
| Oak Creek (TX) | — | — | 24,603 | — | — | — | — | — | 252 |
| Oklaunion (TX) | 391,252 | 313 | — | — | — | — | 241 | 1 | — |
| Paint Creek (TX) | — | — | 5,892 | — | — | — | — | — | 70 |
| Presidio (TX) | — | — | — | — | — | — | — | — | — |
| Rio Pecos (TX) | — | — | 31,755 | — | — | — | — | — | 351 |
| San Angelo (TX) | — | — | 62,562 | — | — | — | — | — | 636 |
| Vernon (TX) | — | — | — | — | — | — | — | — | — |
| **Western Farmers Elec Coop** | **173,310** | **249** | **132,642** | **—** | **—** | **—** | **102** | * | **1,228** |
| Anadarko (OK) | — | — | 108,262 | — | — | — | — | — | 974 |
| Hugo (OK) | 173,310 | 249 | — | — | — | — | 102 | * | — |
| Mooreland (OK) | — | — | 24,380 | — | — | — | — | — | 254 |
| **Western Mass Elec Co** | **—** | **9,568** | **210** | **31,801** | **—** | **—** | **—** | **28** | **3** |
| Cabot (MA) | — | — | — | 30,538 | — | — | — | — | — |
| Cobble Mountain (MA) | — | — | — | 742 | — | — | — | — | — |
| Doreen (MA) | — | –15 | — | — | — | — | — | — | — |
| Dwight (MA) | — | — | — | 392 | — | — | — | — | — |
| Gardners Falls (MA) | — | — | — | 1,487 | — | — | — | — | — |
| Indian Orchard (MA) | — | — | — | 1,136 | — | — | — | — | — |
| Northfield Mountain (MA) | — | — | — | –6,645 | — | — | — | — | — |
| Putts Bridge (MA) | — | — | — | 1,464 | — | — | — | — | — |
| Red Bridge (MA) | — | — | — | 1,935 | — | — | — | — | — |
| Turners Falls (MA) | — | — | — | 752 | — | — | — | — | — |
| West Springfield (MA) | — | 9,597 | 210 | — | — | — | — | 28 | 3 |
| Woodland Road (MA) | — | –14 | — | — | — | — | — | — | — |
| **Wisconsin Electric Pwr Co** | **1,629,775** | **9,269** | **10,949** | **31,961** | **342,384** | **—** | **907** | **15** | **132** |
| Appleton (WI) | — | — | — | 1,289 | — | — | — | — | — |
| Big Quinnesec 61 (MI) | — | — | — | — | — | — | — | — | — |
| Big Quinnesec 92 (MI) | — | — | — | 8,312 | — | — | — | — | — |
| Brule (MI) | — | — | — | 640 | — | — | — | — | — |
| Chalk Hill (MI) | — | — | — | 2,467 | — | — | — | — | — |
| Concord (WI) | — | — | 5,121 | — | — | — | — | — | 70 |
| Germantown (WI) | — | 8,751 | — | — | — | — | — | 14 | — |
| Hemlock Falls (MI) | — | — | — | 1,226 | — | — | — | — | — |
| Kingsford (MI) | — | — | — | 2,271 | — | — | — | — | — |
| Lower Paint (MI) | — | — | — | 33 | — | — | — | — | — |
| Michigamme Falls (MI) | — | — | — | 3,405 | — | — | — | — | — |
| Oconto Falls (WI) | — | — | — | 333 | — | — | — | — | — |
| Oil Storage (WI) | — | — | — | — | — | — | — | — | — |
| Paris (WI) | — | — | 389 | — | — | — | — | — | 8 |
| Peavy Falls (MI) | — | — | — | 5,719 | — | — | — | — | — |
| Pine (WI) | — | — | — | 497 | — | — | — | — | — |
| Pleasant Prairie (WI) | 704,948 | 5 | 418 | — | — | — | 438 | * | 4 |
| Point Beach (WI) | — | 42 | — | — | 342,384 | — | — | * | — |
| Port Washington (WI) | 75,366 | — | — | — | — | — | 41 | — | — |
| Presque Isle (MI) | 258,258 | 471 | — | — | — | — | 139 | 1 | — |
| South Oak Creek (WI) | 503,694 | — | 4,684 | — | — | — | 235 | — | 44 |
| Sturgeon (MI) | — | — | — | — | — | — | — | — | — |
| Twin Falls (MI) | — | — | — | 2,874 | — | — | — | — | — |
| Valley (WI) | 87,509 | — | 337 | — | — | — | 54 | — | 5 |
| Way (MI) | — | — | — | 419 | — | — | — | — | — |
| Weyauwega (WI) | — | — | — | — | — | — | — | — | — |
| White Rapids (MI) | — | — | — | 2,476 | — | — | — | — | — |

See footnotes at end of table.

## Table 56. U.S. Electric Utility Net Generation and Fuel Consumption, by Company and Plant, February 1999 (Continued)

| Company (Holding Company) Plant (State) | Generation (thousand kilowatthours) | | | | | | Consumption (thousand) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Hydro | Nuclear | Other[1] | Coal (short tons) | Petroleum (bbls) | Gas (Mcf) |
| **Wisconsin Pub Serv Corp** | **396,881** | **19** | **17,389** | **17,644** | **340,936** | **—** | **256** | * | **229** |
| Alexander (WI) | — | — | — | 1,449 | — | — | — | — | — |
| Caldron Falls (WI) | — | — | — | 466 | — | — | — | — | — |
| Eagle River (WI) | — | — | — | — | — | — | — | — | — |
| Grand Rapids (MI) | — | — | — | 2,871 | — | — | — | — | — |
| Grandfather Falls (WI) | — | — | — | 6,270 | — | — | — | — | — |
| Hat Rapids (WI) | — | — | — | 361 | — | — | — | — | — |
| High Falls (WI) | — | — | — | 814 | — | — | — | — | — |
| Jersey (WI) | — | — | — | 173 | — | — | — | — | — |
| Johnson Falls (WI) | — | — | — | 469 | — | — | — | — | — |
| Kewaunee (WI) | — | — | — | — | 340,936 | — | — | — | — |
| Merrill (WI) | — | — | — | 756 | — | — | — | — | — |
| Oneida Casino (WI) | — | 12 | — | — | — | — | — | * | — |
| Otter Rapids (WI) | — | — | — | 176 | — | — | — | — | — |
| Peshtigo (WI) | — | — | — | 238 | — | — | — | — | — |
| Potato Rapids (WI) | — | — | — | 264 | — | — | — | — | — |
| Pulliam (WI) | 162,864 | — | 1,054 | — | — | — | 108 | — | 13 |
| Sandstone Rapids (WI) | — | — | — | 532 | — | — | — | — | — |
| Tomahawk (WI) | — | — | — | 868 | — | — | — | — | — |
| Wausau (WI) | — | — | — | 1,937 | — | — | — | — | — |
| West Marinette (WI) | — | 5 | 10,388 | — | — | — | — | * | 141 |
| Weston (WI) | 234,017 | 2 | 5,947 | — | — | — | 148 | * | 75 |
| **Wisconsin Pwr & Lgt Co** | **967,648** | **1,516** | **6,458** | **13,643** | **—** | **9,794** | **586** | **3** | **92** |
| Blackhawk (WI) | — | — | — | — | — | — | — | — | — |
| Columbia (WI) | 497,278 | 1,246 | — | — | — | — | 314 | 2 | — |
| Dewey, Nelson (WI) | 56,363 | 29 | — | — | — | 1,440 | 31 | * | — |
| Edgewater (WI) | 359,649 | 147 | — | — | — | 7,418 | 208 | * | — |
| Kilbourn (WI) | — | — | — | 3,748 | — | — | — | — | — |
| NA 1 (WI) | — | — | 3,045 | — | — | — | — | — | 47 |
| Portable (WI) | — | — | — | — | — | — | — | — | — |
| Prairie Du Sac (WI) | — | — | — | 9,639 | — | — | — | — | — |
| Rock River (WI) | 54,358 | 94 | 3,282 | — | — | 936 | 33 | * | 43 |
| Shawano (WI) | — | — | — | 256 | — | — | — | — | — |
| Sheepskin (WI) | — | — | 131 | — | — | — | — | — | 3 |
| **Wolf Creek Nuclear Corp** | **—** | **—** | **—** | **—** | **793,072** | **—** | **—** | **—** | **—** |
| Wolf Creek (KS) | — | — | — | — | 793,072 | — | — | — | — |
| **Wyandotte (City of)** | **10,706** | **—** | **7,037** | **—** | **—** | **—** | **11** | **—** | **121** |
| Wyandotte (MI) | 10,706 | — | 7,037 | — | — | — | 11 | — | 121 |
| **Yuba County Water Agency** | **—** | **—** | **—** | **233,707** | **—** | **—** | **—** | **—** | **—** |
| Fish Power (CA) | — | — | — | 55 | — | — | — | — | — |
| New Colgate (CA) | — | — | — | 199,450 | — | — | — | — | — |
| New Narrows (CA) | — | — | — | 34,202 | — | — | — | — | — |

[1] Other energy sources include geothermal, solar, wood, wind, and waste.

* Less than 0.05.

Notes: •Data for 1998 are final. •Totals may not equal sum of components because of independent rounding. •Net generation for jointly owned units is reported by the operator. •Negative generation denotes that electric power consumed for plant use exceeds gross generation. •Station losses include energy used for pumped storage. •Generation is included for plants in test status. •Nuclear generation is included for those plants with an operating license issued authorizing fuel loading/low power testing prior to receipt of full power amendment. •Central storage is a common area for fuel stocks not assigned to specific plants. •Mcf=thousand cubic feet and bbls=barrels. •Holding Companies are: **AEP** is American Electric Power, **APS** is Allegheny Power System, **ACE** is Atlantic City Electric, **CSW** is Central & South West Corporation, **CES** is Commonwealth Energy System, **DMV** is Delmarva, **EU** is Eastern Utilities Associates Company, **GPS** is General Public Utilities, **MSU** is Middle South Utilities, **NEES** is New England Electric System, **NU** is Northeast Utilities, **SC** is Southern Company, **TU** is Texas Utilities.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

# Monthly Plant Aggregates: U.S. Electric Utility Receipts, Cost, and Quality of Fossil Fuels

**Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999**

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Alabama Electric Coop Inc** | **165** | **140.0** | **33.17** | **1.27** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Lowman (AL) | 165 | 140.0 | 33.17 | 1.27 | — | — | — | — | — | — | — | 100 | — | — |
| **Alabama Power Co[4]** | **1,771** | **165.2** | **36.55** | **.83** | **16** | **161.1** | **9.46** | **—** | **91** | **200.7** | **2.07** | **100** | ***** | ***** |
| Barry (AL) | 282 | 202.7 | 48.90 | .62 | — | — | — | — | 29 | 232.2 | 2.50 | 100 | — | * |
| Gadsden (AL) | 20 | 160.4 | 39.92 | 1.78 | — | — | — | — | 7 | 216.8 | 2.21 | 99 | — | 1 |
| Gaston (AL) | 361 | 192.8 | 47.90 | .97 | 5 | 160.6 | 9.41 | — | — | — | — | 100 | * | — |
| Gorgas 2 and 3 (AL) | 281 | 153.6 | 36.43 | 1.41 | 1 | 172.2 | 10.13 | — | — | — | — | 100 | * | — |
| Greene (AL) | 101 | 116.3 | 28.79 | 2.30 | — | — | — | — | * | 239.0 | 2.46 | 100 | — | * |
| James Miller (AL) | 726 | 143.4 | 27.15 | .39 | 10 | 160.6 | 9.44 | — | 55 | 180.2 | 1.81 | 99 | * | * |
| **American Municipal Power** | **75** | **83.5** | **19.18** | **5.01** | **—** | **—** | **—** | **—** | **2** | **384.5** | **4.00** | **100** | **—** | ***** |
| Gorsuch (OH) | 75 | 83.5 | 19.18 | 5.01 | — | — | — | — | 2 | 384.5 | 4.00 | 100 | — | * |
| **Ames City of** | **24** | **145.0** | **25.77** | **.17** | ***** | **300.0** | **17.30** | **0.20** | **—** | **—** | **—** | **100** | ***** | **—** |
| Ames (IA) | 24 | 145.0 | 25.77 | .17 | * | 300.0 | 17.30 | .20 | — | — | — | 100 | * | — |
| **Anchorage City of** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **688** | **197.3** | **1.97** | **—** | **—** | **100** |
| George Sullivan (AK) | — | — | — | — | — | — | — | — | 688 | 197.3 | 1.97 | — | — | 100 |
| **Appalachian Power Co** | **1,240** | **134.7** | **32.84** | **.73** | **1** | **242.6** | **14.12** | **—** | **—** | **—** | **—** | **100** | ***** | **—** |
| Amos (WV) | 587 | 134.2 | 32.39 | .75 | — | — | — | — | — | — | — | 100 | — | — |
| Clinch River (VA) | 147 | 130.7 | 32.51 | .66 | 1 | 178.7 | 10.41 | — | — | — | — | 100 | * | — |
| Glen Lyn (VA) | 69 | 137.2 | 35.15 | .88 | 1 | 282.6 | 16.44 | — | — | — | — | 100 | * | — |
| Kanawha River (WV) | 111 | 125.8 | 30.86 | .86 | — | — | — | — | — | — | — | 100 | — | — |
| Mountaineer (WV) | 326 | 140.0 | 33.98 | .66 | — | — | — | — | — | — | — | 100 | — | — |
| **Arizona Electric Pwr Coop Inc** | **143** | **124.2** | **23.85** | **.50** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Apache (AZ) | 143 | 124.2 | 23.85 | .50 | — | — | — | — | — | — | — | 100 | — | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Arizona Public Service Co** | **947** | **116.3** | **21.27** | **0.65** | — | — | — | — | **1,128** | **222.3** | **2.26** | **94** | — | **6** |
| Cholla (AZ) | 283 | 132.4 | 26.33 | .43 | — | — | — | — | 1 | 290.6 | 2.96 | 100 | — | * |
| Four Corners (NM) | 664 | 108.6 | 19.12 | .74 | — | — | — | — | 49 | 299.4 | 3.03 | 100 | — | * |
| Ocotillo (AZ) | — | — | — | — | — | — | — | — | 185 | 223.0 | 2.28 | — | — | 100 |
| Phoenix (AZ) | — | — | — | — | — | — | — | — | 546 | 223.0 | 2.27 | — | — | 100 |
| Saguaro (AZ) | — | — | — | — | — | — | — | — | 85 | 221.0 | 2.26 | — | — | 100 |
| Yucca (AZ) | — | — | — | — | — | — | — | — | 261 | 206.0 | 2.09 | — | — | 100 |
| **Arkansas Power & Light Co** | **1,107** | **148.3** | **25.78** | **.26** | **7** | **302.0** | **17.90** | **0.50** | **1,238** | **191.8** | **1.94** | **94** | * | **6** |
| Couch (AR) | — | — | — | — | — | — | — | — | 46 | 195.6 | 2.01 | — | — | 100 |
| Independence (AR) | 592 | 137.0 | 24.42 | .18 | 2 | 311.6 | 18.43 | .50 | — | — | — | 100 | * | — |
| Lake Catherine (AR) | — | — | — | — | — | — | — | — | 1,089 | 191.5 | 1.94 | — | — | 100 |
| Ritchie (AR) | — | — | — | — | — | — | — | — | 103 | 193.0 | 1.95 | — | — | 100 |
| Whitebluff (AR) | 515 | 162.1 | 27.35 | .35 | 6 | 299.2 | 17.75 | .50 | — | — | — | 100 | * | — |
| **Associated Electric Coop Inc** | **718** | **84.3** | **14.97** | **.18** | — | — | — | — | — | — | — | **100** | — | — |
| Hill (MO) | 319 | 71.9 | 12.76 | .18 | — | — | — | — | — | — | — | 100 | — | — |
| Madrid (MO) | 399 | 94.3 | 16.74 | .18 | — | — | — | — | — | — | — | 100 | — | — |
| **Atlantic City Electric Co** | **36** | **184.5** | **45.94** | **2.30** | **1** | **280.1** | **16.41** | **.11** | **9** | **831.8** | **8.69** | **98** | **1** | **1** |
| Deepwater (NJ) | — | — | — | — | * | 274.9 | 16.10 | .11 | 9 | 831.8 | 8.69 | — | 8 | 92 |
| England (NJ) | 36 | 184.5 | 45.94 | 2.30 | 1 | 280.7 | 16.44 | .11 | — | — | — | 99 | 1 | — |
| **Austin City of** | — | — | — | — | — | — | — | — | **397** | **192.3** | **1.96** | — | — | **100** |
| Decker Creek (TX) | — | — | — | — | — | — | — | — | 223 | 181.7 | 1.84 | — | — | 100 |
| Holly (TX) | — | — | — | — | — | — | — | — | 174 | 205.9 | 2.11 | — | — | 100 |
| **Baltimore Gas & Electric Co** | **393** | **139.2** | **35.28** | **.77** | **154** | **147.3** | **9.39** | **.96** | **40** | **293.8** | **3.07** | **91** | **9** | * |
| Brandon Shores (MD) | 320 | 138.8 | 34.91 | .69 | 1 | 244.7 | 14.34 | .14 | — | — | — | 100 | * | — |
| Crane (MD) | 29 | 140.5 | 37.29 | 1.55 | — | — | — | — | — | — | — | 100 | — | — |
| Gould St (MD) | — | — | — | — | 14 | 140.9 | 8.99 | .97 | 5 | 285.2 | 2.98 | — | 94 | 6 |
| Riverside (MD) | — | — | — | — | — | — | — | — | 8 | 289.2 | 3.02 | — | — | 100 |
| Wagner (MD) | 44 | 141.3 | 36.64 | .87 | 139 | 147.3 | 9.39 | .97 | 27 | 296.9 | 3.10 | 56 | 43 | 1 |
| **Basin Electric Power Coop** | **1,359** | **58.4** | **8.68** | **.54** | **1** | **293.3** | **16.99** | **.34** | — | — | — | **100** | * | — |
| Antelope Valley (ND) | 473 | 69.3 | 9.21 | .63 | — | — | — | — | — | — | — | 100 | — | — |
| Laramie River (WY) | 619 | 45.2 | 7.56 | .40 | — | — | — | — | — | — | — | 100 | — | — |
| Leland Olds (ND) | 267 | 77.2 | 10.32 | .71 | 1 | 293.3 | 16.99 | .34 | — | — | — | 100 | * | — |
| **Black Hills Corp** | **41** | **40.3** | **6.41** | **.49** | — | — | — | — | — | — | — | **100** | — | — |
| Neal Simpson II (WY) | 41 | 40.3 | 6.41 | .49 | — | — | — | — | — | — | — | 100 | — | — |
| **Braintree City of** | — | — | — | — | **2** | **240.1** | **13.96** | **.12** | **1** | **265.0** | **2.73** | — | **93** | **7** |
| Potter Station (MA) | — | — | — | — | 2 | 240.1 | 13.96 | .12 | 1 | 265.0 | 2.73 | — | 93 | 7 |
| **Brazos Electric Power Coop Inc** | — | — | — | — | — | — | — | — | **960** | **183.2** | **1.83** | — | — | **100** |
| Miller (TX) | — | — | — | — | — | — | — | — | 960 | 183.2 | 1.83 | — | — | 100 |
| **Bryan City of** | — | — | — | — | — | — | — | — | **329** | **207.9** | **2.12** | — | — | **100** |
| Bryan (TX) | — | — | — | — | — | — | — | — | 12 | 194.1 | 1.98 | — | — | 100 |
| Dansby (TX) | — | — | — | — | — | — | — | — | 317 | 208.4 | 2.13 | — | — | 100 |
| **Burbank City of** | — | — | — | — | — | — | — | — | **2** | **320.0** | **3.28** | — | — | **100** |
| Magnolia-Olive (CA) | — | — | — | — | — | — | — | — | 2 | 320.0 | 3.28 | — | — | 100 |
| **Burlington City of** | — | — | — | — | — | — | — | — | **2** | **243.7** | **2.47** | — | — | **100** |
| J C McNeil (VT) | — | — | — | — | — | — | — | — | 2 | 243.7 | 2.47 | — | — | 100 |
| **Cajun Electric Power Coop Inc** | **585** | **145.8** | **24.39** | **.47** | **5** | **228.1** | **13.41** | — | **403** | **187.0** | **1.95** | **96** | * | **4** |
| Big Cajun No.1 (LA) | — | — | — | — | — | — | — | — | 403 | 187.0 | 1.95 | — | — | 100 |
| Big Cajun No.2 (LA) | 585 | 145.8 | 24.39 | .47 | 5 | 228.1 | 13.41 | — | — | — | — | 100 | * | — |
| **Cardinal Operating Co** | **459** | **194.9** | **48.19** | **1.35** | — | — | — | — | — | — | — | **100** | — | — |
| Cardinal (OH) | 459 | 194.9 | 48.19 | 1.35 | — | — | — | — | — | — | — | 100 | — | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Carolina Power & Light Co** | **902** | **147.3** | **36.85** | **0.89** | **11** | **251.8** | **14.59** | **0.20** | **—** | **—** | **—** | **100** | * | — |
| Asheville (NC) | 56 | 143.6 | 35.86 | .99 | * | 249.6 | 14.47 | .20 | — | — | — | 100 | * | — |
| Cape Fear (NC) | 49 | 140.2 | 34.47 | .96 | — | — | — | — | — | — | — | 100 | — | — |
| Lee (NC) | 35 | 155.2 | 38.64 | .94 | 2 | 238.3 | 13.81 | .20 | — | — | — | 99 | 1 | — |
| Mayo (NC) | 122 | 148.8 | 37.47 | .63 | 1 | 262.8 | 15.23 | .20 | — | — | — | 100 | * | — |
| Robinson (SC) | 42 | 153.5 | 40.08 | 1.23 | 1 | 285.1 | 16.52 | .20 | — | — | — | 100 | * | — |
| Roxboro (NC) | 491 | 145.9 | 36.34 | .89 | 5 | 251.3 | 14.57 | .20 | — | — | — | 100 | * | — |
| Sutton (NC) | 92 | 150.7 | 37.83 | 1.00 | 2 | 249.3 | 14.45 | .20 | — | — | — | 100 | * | — |
| Weatherspoon (NC) | 15 | 158.9 | 40.60 | .96 | — | — | — | — | — | — | — | 100 | — | — |
| **Central Electric Pwr Coop-MO** | **14** | **130.2** | **28.67** | **2.58** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Chamois (MO) | 14 | 130.2 | 28.67 | 2.58 | — | — | — | — | — | — | — | 100 | — | — |
| **Central Hudson Gas & Elec Corp** | **114** | **164.4** | **42.61** | **.66** | **268** | **138.6** | **8.61** | **1.28** | **310** | **187.0** | **1.92** | **60** | **34** | **6** |
| Danskammer (NY) | 114 | 164.4 | 42.61 | .66 | — | — | — | — | 17 | 306.4 | 3.11 | 99 | — | 1 |
| Roseton (NY) | — | — | — | — | 268 | 138.6 | 8.61 | 1.28 | 293 | 180.1 | 1.85 | — | 85 | 15 |
| **Central Illinois Light Co** | **230** | **151.0** | **32.41** | **2.83** | **1** | **365.0** | **20.98** | **.03** | **—** | **—** | **—** | **100** | * | — |
| Duck Creek (IL) | 109 | 184.3 | 39.00 | 3.51 | 1 | 363.1 | 20.87 | .03 | — | — | — | 100 | * | — |
| Edwards (IL) | 121 | 121.8 | 26.48 | 2.21 | 1 | 366.1 | 21.04 | .03 | — | — | — | 100 | * | — |
| **Central Illinois Pub Serv Co** | **520** | **144.8** | **29.08** | **1.00** | **8** | **316.8** | **17.99** | **.29** | **—** | **—** | **—** | **100** | * | — |
| Coffeen (IL) | 179 | 182.6 | 37.62 | 1.00 | 1 | 271.3 | 15.63 | .29 | — | — | — | 100 | * | — |
| Grand Tower (IL) | 20 | 100.1 | 22.52 | 2.95 | — | — | — | — | — | — | — | 100 | — | — |
| Hutsonville (IL) | 17 | 108.9 | 23.96 | 2.81 | 1 | 314.4 | 17.86 | .29 | — | — | — | 99 | 1 | — |
| Meredosia (IL) | 55 | 101.3 | 22.95 | 2.72 | 1 | 311.0 | 17.90 | .29 | — | — | — | 100 | * | — |
| Newton (IL) | 249 | 133.8 | 25.17 | .34 | 5 | 327.8 | 18.51 | .29 | — | — | — | 99 | 1 | — |
| **Central Iowa Power Coop** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | * | **397.4** | **3.97** | **—** | **—** | **100** |
| Fair Station (IA) | — | — | — | — | — | — | — | — | * | 397.4 | 3.97 | — | — | 100 |
| **Central Louisiana Elec Co Inc** | **483** | **133.6** | **20.03** | **.85** | **—** | **—** | **—** | **—** | **2,019** | **190.9** | **2.00** | **77** | **—** | **23** |
| Coughlin (LA) | — | — | — | — | — | — | — | — | 228 | 189.7 | 1.98 | — | — | 100 |
| Dolet Hills (LA) | 288 | 133.8 | 18.17 | .95 | — | — | — | — | 1 | 262.7 | 2.69 | 100 | — | * |
| Rodemacher (LA) | 195 | 133.3 | 22.78 | .70 | — | — | — | — | 794 | 183.3 | 1.92 | 80 | — | 20 |
| Teche (LA) | — | — | — | — | — | — | — | — | 995 | 197.1 | 2.07 | — | — | 100 |
| **Central Maine Power Co** | **—** | **—** | **—** | **—** | **243** | **163.5** | **10.39** | **1.16** | **—** | **—** | **—** | **—** | **100** | **—** |
| Wyman (ME) | — | — | — | — | 243 | 163.5 | 10.39 | 1.16 | — | — | — | — | 100 | — |
| **Central Operating Co** | **265** | **117.6** | **28.52** | **1.55** | **4** | **308.3** | **17.74** | **—** | **—** | **—** | **—** | **100** | * | — |
| Sporn (WV) | 265 | 117.6 | 28.52 | 1.55 | 4 | 308.3 | 17.74 | — | — | — | — | 100 | * | — |
| **Central Power & Light Co** | **223** | **143.3** | **27.05** | **.29** | **—** | **—** | **—** | **—** | **6,139** | **179.3** | **1.85** | **40** | **—** | **60** |
| Bates (TX) | — | — | — | — | — | — | — | — | 546 | 176.6 | 1.81 | — | — | 100 |
| Coleto Creek (TX) | 223 | 143.3 | 27.05 | .29 | — | — | — | — | — | — | — | 100 | — | — |
| Davis (TX) | — | — | — | — | — | — | — | — | 2,206 | 179.3 | 1.84 | — | — | 100 |
| Hill (TX) | — | — | — | — | — | — | — | — | 798 | 179.3 | 1.84 | — | — | 100 |
| Joslin (TX) | — | — | — | — | — | — | — | — | 3 | 179.4 | 1.86 | — | — | 100 |
| La Palma (TX) | — | — | — | — | — | — | — | — | 538 | 182.7 | 1.88 | — | — | 100 |
| Laredo (TX) | — | — | — | — | — | — | — | — | 399 | 180.1 | 1.95 | — | — | 100 |
| Nueces Bay (TX) | — | — | — | — | — | — | — | — | 1,610 | 178.9 | 1.84 | — | — | 100 |
| Victoria (TX) | — | — | — | — | — | — | — | — | 41 | 178.6 | 1.85 | — | — | 100 |
| **Chugach Electric Assn Inc** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **1,161** | **153.0** | **1.53** | **—** | **—** | **100** |
| Beluga (AK) | — | — | — | — | — | — | — | — | 1,161 | 153.0 | 1.53 | — | — | 100 |
| **Cincinnati Gas & Electric Co** | **911** | **111.2** | **26.80** | **1.95** | **16** | **253.0** | **14.55** | **.19** | **—** | **—** | **—** | **100** | * | — |
| Beckjord (OH) | 229 | 112.9 | 27.08 | 1.21 | 6 | 249.7 | 14.37 | .32 | — | — | — | 99 | 1 | — |
| East Bend (KY) | 144 | 110.5 | 27.19 | 1.79 | 1 | 259.5 | 14.80 | .30 | — | — | — | 100 | * | — |
| Miami Fort (OH) | 274 | 120.3 | 28.91 | 1.04 | 2 | 270.7 | 15.54 | .02 | — | — | — | 100 | * | — |
| Zimmer (OH) | 264 | 100.6 | 24.16 | 3.64 | 7 | 249.4 | 14.37 | .13 | — | — | — | 99 | 1 | — |
| **Cleveland Electric Illum Co** | **237** | **137.2** | **34.74** | **1.37** | **2** | **213.7** | **12.46** | **.21** | **—** | **—** | **—** | **100** | * | — |
| Ashtabula (OH) | 4 | 115.7 | 27.38 | 3.95 | 1 | 277.8 | 16.22 | .02 | — | — | — | 96 | 4 | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Cleveland Electric Illum Co** | | | | | | | | | | | | | | |
| Avon Lake (OH) | 115 | 148.1 | 36.94 | 0.86 | 1 | 132.4 | 7.68 | 0.33 | — | — | — | 100 | * | — |
| Eastlake (OH) | 81 | 116.9 | 29.90 | 2.30 | * | 259.8 | 15.25 | .36 | — | — | — | 100 | * | — |
| Lake Shore (OH) | 37 | 150.1 | 39.24 | .63 | * | 226.6 | 13.22 | .04 | — | — | — | 100 | * | — |
| **Colorado Springs City of** | **147** | **118.7** | **25.48** | **.45** | — | — | — | — | **10** | **360.5** | **3.56** | **100** | — | * |
| Drake (CO) | 73 | 147.1 | 31.38 | .42 | — | — | — | — | 10 | 360.5 | 3.56 | 99 | — | 1 |
| Nixon (CO) | 74 | 91.1 | 19.66 | .49 | — | — | — | — | — | — | — | 100 | — | — |
| **Columbia City of** | **1** | **203.2** | **52.34** | **1.09** | — | — | — | — | — | — | — | **100** | — | — |
| Columbia (MO) | 1 | 203.2 | 52.34 | 1.09 | — | — | — | — | — | — | — | 100 | — | — |
| **Columbus & Southern Ohio El Co** | **397** | **121.2** | **29.02** | **2.94** | **2** | **263.7** | **15.64** | — | — | — | — | **100** | * | — |
| Conesville (OH) | 376 | 122.3 | 29.34 | 2.91 | 2 | 263.7 | 15.64 | — | — | — | — | 100 | * | — |
| Picway (OH) | 20 | 100.5 | 23.14 | 3.66 | — | — | — | — | — | — | — | 100 | — | — |
| **Commonwealth Edison Co** | **1,365** | **219.9** | **38.44** | **.39** | **9** | **255.4** | **14.92** | **.23** | **785** | **174.7** | **1.78** | **97** | * | **3** |
| Collins (IL) | — | — | — | — | — | — | — | — | 726 | 172.1 | 1.76 | — | — | 100 |
| Fisk Storage (IL) | — | — | — | — | — | — | — | — | 54 | 190.0 | 1.96 | — | — | 100 |
| Joliet (IL) | 388 | 254.7 | 44.41 | .36 | — | — | — | — | — | — | — | 100 | — | — |
| Powerton (IL) | 235 | 145.7 | 24.96 | .24 | — | — | — | — | 5 | 389.6 | 3.90 | 100 | — | * |
| Waukegan (IL) | 296 | 228.0 | 39.54 | .48 | — | — | — | — | — | — | — | 100 | — | — |
| Will County (IL) | 446 | 222.8 | 39.62 | .44 | 9 | 255.4 | 14.92 | .23 | — | — | — | 99 | 1 | — |
| **Connecticut Light & Power Co** | — | — | — | — | **941** | **157.6** | **10.02** | **.72** | **1** | **199.4** | **2.02** | — | **100** | * |
| Devon (CT) | — | — | — | — | 153 | 161.3 | 10.20 | .91 | 1 | 199.4 | 2.02 | — | 100 | * |
| Middletown (CT) | — | — | — | — | 361 | 157.5 | 9.92 | .45 | — | — | — | — | 100 | — |
| Montville (CT) | — | — | — | — | 146 | 150.5 | 9.92 | .82 | — | — | — | — | 100 | — |
| Norwalk Harbor (CT) | — | — | — | — | 281 | 159.4 | 10.11 | .90 | — | — | — | — | 100 | — |
| **Consolidated Edison Co-NY Inc** | — | — | — | — | — | — | — | — | **4,015** | **226.9** | **2.34** | — | — | **100** |
| Arthur Kill (NY) | — | — | — | — | — | — | — | — | 1,275 | 228.5 | 2.35 | — | — | 100 |
| Astoria (NY) | — | — | — | — | — | — | — | — | 1,940 | 225.2 | 2.32 | — | — | 100 |
| East River (NY) | — | — | — | — | — | — | — | — | 184 | 228.5 | 2.35 | — | — | 100 |
| Ravenswood (NY) | — | — | — | — | — | — | — | — | 7 | 227.9 | 2.35 | — | — | 100 |
| Waterside (NY) | — | — | — | — | — | — | — | — | 609 | 228.5 | 2.35 | — | — | 100 |
| **Consumers Power Co** | **605** | **138.9** | **30.69** | **.63** | **63** | **241.0** | **15.30** | **.76** | **28** | **207.6** | **2.08** | **97** | **3** | * |
| Campbell (MI) | 331 | 146.1 | 32.96 | .59 | — | — | — | — | — | — | — | 100 | — | — |
| Cobb (MI) | — | — | — | — | * | 238.4 | 13.82 | .50 | — | — | — | — | 100 | — |
| Karn-Weadock (MI) | 101 | 147.4 | 36.10 | .92 | 58 | 239.0 | 15.29 | .78 | 28 | 207.6 | 2.08 | 86 | 13 | 1 |
| Weadock (MI) | 120 | 107.1 | 19.95 | .44 | 5 | 266.3 | 15.43 | .50 | — | — | — | 99 | 1 | — |
| Whiting (MI) | 53 | 136.2 | 30.59 | .75 | — | — | — | — | — | — | — | 100 | — | — |
| **Coop Power Assn** | **614** | **76.7** | **9.28** | **.72** | — | — | — | — | — | — | — | **100** | — | — |
| Coal Creek (ND) | 614 | 76.7 | 9.28 | .72 | — | — | — | — | — | — | — | 100 | — | — |
| **Dairyland Power Coop** | **97** | **99.7** | **17.69** | **.20** | — | — | — | — | — | — | — | **100** | — | — |
| Alma-Madgett (WI) | 97 | 99.7 | 17.69 | .20 | — | — | — | — | — | — | — | 100 | — | — |
| **Dayton Power & Light Co** | **758** | **119.4** | **27.52** | **.79** | **5** | **253.1** | **14.64** | **.24** | **18** | **447.8** | **4.57** | **100** | * | * |
| Hutchings (OH) | — | — | — | — | — | — | — | — | 18 | 447.8 | 4.57 | — | — | 100 |
| Killen (OH) | 182 | 124.6 | 29.57 | .62 | — | — | — | — | — | — | — | 100 | — | — |
| Stuart (OH) | 577 | 117.7 | 26.87 | .84 | 5 | 253.1 | 14.64 | .24 | — | — | — | 100 | * | — |
| **Delmarva Power & Light Co** | **58** | **152.3** | **39.91** | **1.10** | **49** | **152.0** | **9.68** | **1.80** | **826** | **288.4** | **2.98** | **57** | **12** | **32** |
| Edgemoor (DE) | 8 | 157.2 | 40.32 | .78 | * | 248.8 | 14.47 | .10 | 110 | 217.2 | 2.17 | 64 | 1 | 36 |
| Hay Road (DE) | — | — | — | — | — | — | — | — | 716 | 298.9 | 3.10 | — | — | 100 |
| Indian River (DE) | 50 | 151.5 | 39.84 | 1.15 | 5 | 254.7 | 14.82 | .21 | — | — | — | 98 | 2 | — |
| Vienna (MD) | — | — | — | — | 44 | 140.2 | 9.03 | 2.00 | — | — | — | — | 100 | — |
| **Denton City of** | — | — | — | — | — | — | — | — | **158** | **185.0** | **1.91** | — | — | **100** |
| Spencer (TX) | — | — | — | — | — | — | — | — | 158 | 185.0 | 1.91 | — | — | 100 |
| **Deseret Generation & Tran Coop** | **181** | **159.3** | **32.31** | **.41** | **2** | **558.0** | **32.34** | — | — | — | — | **100** | * | — |
| Bonanza (UT) | 181 | 159.3 | 32.31 | .41 | 2 | 558.0 | 32.34 | — | — | — | — | 100 | * | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Detroit City of** | — | — | — | — | — | — | — | — | 271 | 293.5 | 3.02 | — | — | 100 |
| Mistersky (MI) | — | — | — | — | — | — | — | — | 271 | 293.5 | 3.02 | — | — | 100 |
| **Detroit Edison Co** | 1,090 | 113.5 | 23.35 | 0.68 | 73 | 272.0 | 16.50 | 0.64 | 2,404 | 210.2 | 1.07 | 93 | 2 | 5 |
| Belle River (MI) | — | — | — | — | 1 | 330.0 | 19.12 | .26 | — | — | — | — | 100 | — |
| Greenwood (MI) | — | — | — | — | 67 | 270.5 | 16.47 | .67 | 976 | 221.7 | 2.25 | — | 29 | 71 |
| Harbor Beach (MI) | — | — | — | — | 1 | 303.1 | 17.43 | .10 | — | — | — | — | 100 | — |
| Marysville (MI) | — | — | — | — | — | — | — | — | 11 | 389.0 | 3.88 | — | — | 100 |
| Monroe (MI) | 698 | 110.6 | 22.31 | .57 | 4 | 285.8 | 16.54 | .21 | — | — | — | 100 | * | — |
| River Rouge (MI) | 197 | 115.8 | 23.98 | .64 | — | — | — | — | 1,360 | 100.0 | .12 | 96 | — | 4 |
| St Clair (MI) | 33 | 125.9 | 33.08 | 3.17 | — | — | — | — | 57 | 293.0 | 2.97 | 94 | — | 6 |
| Trenton Channel (MI) | 162 | 119.6 | 25.09 | .68 | — | — | — | — | — | — | — | 100 | — | — |
| **Dover City of** | — | — | — | — | — | — | — | — | 6 | 325.9 | 3.36 | — | — | 100 |
| Mckee Run (DE) | — | — | — | — | — | — | — | — | 6 | 325.9 | 3.36 | — | — | 100 |
| **Duke Power Co** | 1,370 | 141.3 | 35.25 | .84 | 7 | 228.6 | 13.35 | .30 | — | — | — | 100 | * | — |
| Allen (NC) | 117 | 139.7 | 36.19 | .68 | 2 | 224.1 | 13.10 | .30 | — | — | — | 100 | * | — |
| Belews Creek (NC) | 513 | 150.8 | 37.21 | .82 | 1 | 226.9 | 13.23 | .30 | — | — | — | 100 | * | — |
| Buck (NC) | 31 | 137.3 | 33.79 | .96 | — | — | — | — | — | — | — | 100 | — | — |
| Cliffside (NC) | 110 | 137.0 | 34.55 | .86 | 2 | 236.1 | 13.79 | .30 | — | — | — | 100 | * | — |
| Lee (SC) | 27 | 147.7 | 36.39 | .93 | — | — | — | — | — | — | — | 100 | — | — |
| Marshall (NC) | 526 | 133.4 | 33.37 | .87 | 2 | 226.4 | 13.22 | .30 | — | — | — | 100 | * | — |
| Riverbend (NC) | 46 | 140.6 | 34.47 | 1.00 | — | — | — | — | — | — | — | 100 | — | — |
| **Duquesne Light Co** | 190 | 186.6 | 47.46 | 1.97 | 2 | 243.9 | 13.95 | .06 | 37 | 336.9 | 3.50 | 99 | * | 1 |
| Cheswick (PA) | 114 | 118.3 | 30.38 | 1.86 | — | — | — | — | 37 | 336.9 | 3.50 | 99 | — | 1 |
| Elrama (PA) | 76 | 291.7 | 73.06 | 2.14 | 2 | 243.9 | 13.95 | .06 | — | — | — | 99 | 1 | — |
| **East Kentucky Power Coop** | 413 | 114.8 | 28.27 | .91 | 1 | 256.8 | 14.95 | .17 | — | — | — | 100 | * | — |
| Cooper (KY) | 83 | 111.8 | 27.38 | 1.19 | 1 | 268.9 | 15.66 | .20 | — | — | — | 100 | * | — |
| Dale (KY) | 53 | 114.1 | 27.58 | .85 | * | 238.5 | 13.88 | .12 | — | — | — | 100 | * | — |
| Spurlock (KY) | 277 | 115.9 | 28.67 | .84 | — | — | — | — | — | — | — | 100 | — | — |
| **El Paso Electric Co** | — | — | — | — | — | — | — | — | 2,147 | 197.5 | 2.01 | — | — | 100 |
| Newman (TX) | — | — | — | — | — | — | — | — | 1,729 | 201.8 | 2.05 | — | — | 100 |
| Rio Grande (TX) | — | — | — | — | — | — | — | — | 417 | 180.0 | 1.83 | — | — | 100 |
| **Electric Energy Inc** | 373 | 87.9 | 15.41 | .21 | * | 406.3 | 23.51 | .22 | 30 | 217.2 | 2.26 | 100 | * | * |
| Joppa (IL) | 373 | 87.9 | 15.41 | .21 | * | 406.3 | 23.51 | .22 | 30 | 217.2 | 2.26 | 100 | * | * |
| **Empire District Electric Co** | 111 | 112.6 | 21.25 | .85 | 1 | 285.1 | 16.70 | — | 154 | 318.8 | 3.19 | 93 | * | 7 |
| Asbury (MO) | 81 | 110.4 | 20.63 | .79 | 1 | 285.1 | 16.70 | — | — | — | — | 100 | * | — |
| Riverton (KS) | 30 | 118.4 | 22.94 | 1.00 | — | — | — | — | 154 | 318.8 | 3.19 | 79 | — | 21 |
| **Fayetteville Public Works** | — | — | — | — | — | — | — | — | 2 | 318.0 | 3.33 | — | — | 100 |
| Butler Warner (NC) | — | — | — | — | — | — | — | — | 2 | 318.0 | 3.33 | — | — | 100 |
| **Florida Power & Light Co** | — | — | — | — | 2,500 | 174.5 | 11.08 | 1.43 | 9,224 | 269.0 | 2.85 | — | 62 | 38 |
| Cape Canaveral (FL) | — | — | — | — | 409 | 182.0 | 11.57 | 1.42 | 167 | 269.0 | 2.85 | — | 94 | 6 |
| Fort Myers (FL) | — | — | — | — | 348 | 142.5 | 9.08 | 2.03 | — | — | — | — | 100 | — |
| Lauderdale (FL) | — | — | — | — | — | — | — | — | 4,018 | 269.0 | 2.85 | — | — | 100 |
| Manatee (FL) | — | — | — | — | 136 | 192.9 | 12.27 | .82 | — | — | — | — | 100 | — |
| Martin (FL) | — | — | — | — | 268 | 168.5 | 10.79 | .97 | 3,763 | 269.0 | 2.85 | — | 30 | 70 |
| Port Everglades (FL) | — | — | — | — | 522 | 191.4 | 12.01 | .93 | 215 | 269.0 | 2.85 | — | 93 | 7 |
| Putnam (FL) | — | — | — | — | — | — | — | — | 688 | 269.0 | 2.85 | — | — | 100 |
| Riviera (FL) | — | — | — | — | 299 | 144.8 | 9.23 | 2.06 | 202 | 269.0 | 2.85 | — | 90 | 10 |
| Sanford (FL) | — | — | — | — | 273 | 173.8 | 11.03 | 2.18 | 107 | 269.0 | 2.85 | — | 94 | 6 |
| Turkey Point (FL) | — | — | — | — | 245 | 205.8 | 13.09 | .86 | 64 | 269.0 | 2.85 | — | 96 | 4 |
| **Florida Power Corp[5]** | 495 | 176.1 | 44.58 | .80 | 1,214 | 144.5 | 9.36 | 1.72 | — | — | — | 61 | 39 | — |
| Anclote (FL) | — | — | — | — | 1 | 273.0 | 15.91 | .49 | — | — | — | — | 100 | — |
| Bartow (FL) | — | — | — | — | 162 | 118.4 | 7.59 | 2.13 | — | — | — | — | 100 | — |
| Crystal River (FL) | 265 | 177.2 | 44.91 | .87 | 8 | 278.3 | 16.23 | .48 | — | — | — | 99 | 1 | — |
| IMT Transfer (LA) | 230 | 174.9 | 44.20 | .71 | — | — | — | — | — | — | — | 100 | — | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Florida Power Corp**[5] | | | | | | | | | | | | | | |
| Storage Facility #1 | — | — | — | — | 1,041 | 147.3 | 9.57 | 1.66 | — | — | — | — | 100 | — |
| Suwannee (FL) | — | — | — | — | 2 | 213.8 | 13.62 | .60 | — | — | — | — | 100 | — |
| **Fort Pierce City of** | — | — | — | — | — | — | — | — | 10 | 160.5 | 1.70 | — | — | 100 |
| H D King (FL) | — | — | — | — | — | — | — | — | 10 | 160.5 | 1.70 | — | — | 100 |
| **Fremont City of** | 1 | 92.0 | 16.18 | 0.27 | — | — | — | — | 5 | 178.0 | 1.78 | 77 | — | 23 |
| Wright (NE) | 1 | 92.0 | 16.18 | .27 | — | — | — | — | 5 | 178.0 | 1.78 | 77 | — | 23 |
| **Gainesville City of** | 83 | 164.6 | 42.98 | .60 | — | — | — | — | 156 | 177.9 | 1.89 | 93 | — | 7 |
| Deerhaven (FL) | 83 | 164.6 | 42.98 | .60 | — | — | — | — | 151 | 177.9 | 1.89 | 93 | — | 7 |
| Jr Kelly (FL) | — | — | — | — | — | — | — | — | 5 | 178.1 | 1.89 | — | — | 100 |
| **Garland City of** | — | — | — | — | — | — | — | — | 313 | 187.4 | 1.90 | — | — | 100 |
| Newman (TX) | — | — | — | — | — | — | — | — | 2 | 210.1 | 2.16 | — | — | 100 |
| Olinger (TX) | — | — | — | — | — | — | — | — | 311 | 187.2 | 1.90 | — | — | 100 |
| **Georgia Power Co** | 2,867 | 152.3 | 35.49 | .78 | 8 | 263.3 | 15.32 | .50 | — | — | — | 100 | * | — |
| Arkwright (GA) | 15 | 178.6 | 46.57 | 1.71 | — | — | — | — | — | — | — | 100 | — | — |
| Atkinson-Mcdonough (GA) | 119 | 137.4 | 35.92 | 1.03 | 2 | 299.8 | 17.44 | .50 | — | — | — | 100 | * | — |
| Bowen (GA) | 814 | 137.9 | 33.96 | .88 | 2 | 253.5 | 14.75 | .50 | — | — | — | 100 | * | — |
| Hammond (GA) | 107 | 149.8 | 38.30 | .85 | 2 | 247.9 | 14.42 | .50 | — | — | — | 100 | * | — |
| Harllee Branch (GA) | 216 | 159.0 | 39.38 | 1.26 | 1 | 249.2 | 14.50 | .50 | — | — | — | 100 | * | — |
| Mitchell (GA) | 18 | 185.9 | 48.44 | 1.27 | — | — | — | — | — | — | — | 100 | — | — |
| Scherer (GA) | 1,008 | 168.2 | 34.10 | .47 | — | — | — | — | — | — | — | 100 | — | — |
| Wansley (GA) | 279 | 149.3 | 36.75 | .88 | — | — | — | — | — | — | — | 100 | — | — |
| Yates (GA) | 292 | 148.7 | 37.89 | .94 | 1 | 252.1 | 14.66 | .50 | — | — | — | 100 | * | — |
| **Glendale City of** | — | — | — | — | — | — | — | — | 220 | 223.0 | 2.29 | — | — | 100 |
| Glendale (CA) | — | — | — | — | — | — | — | — | 220 | 223.0 | 2.29 | — | — | 100 |
| **Grand Haven City of** | — | — | — | — | — | — | — | — | 1 | 402.4 | 4.02 | — | — | 100 |
| J B Simms (MI) | — | — | — | — | — | — | — | — | 1 | 402.4 | 4.02 | — | — | 100 |
| **Grand Island City of** | 23 | 67.5 | 11.17 | .69 | — | — | — | — | — | — | — | 100 | — | — |
| Platte (NE) | 23 | 67.5 | 11.17 | .69 | — | — | — | — | — | — | — | 100 | — | — |
| **Grand River Dam Authority** | 334 | 88.6 | 15.06 | .44 | — | — | — | — | 15 | 212.2 | 2.11 | 100 | — | * |
| GRDA No 1 (OK) | 334 | 88.6 | 15.06 | .44 | — | — | — | — | 15 | 212.2 | 2.11 | 100 | — | * |
| **Greenville City of** | — | — | — | — | — | — | — | — | 7 | 170.0 | 1.82 | — | — | 100 |
| Power Lane (TX) | — | — | — | — | — | — | — | — | 7 | 170.0 | 1.82 | — | — | 100 |
| **Gulf Power Co** | 246 | 141.2 | 34.37 | 1.61 | 3 | 308.7 | 17.96 | .45 | — | — | — | 100 | * | — |
| Crist (FL) | 128 | 141.4 | 34.23 | .79 | — | — | — | — | — | — | — | 100 | — | — |
| Scholtz (FL) | 24 | 167.9 | 42.80 | 1.04 | — | — | — | — | — | — | — | 100 | — | — |
| Smith (FL) | 94 | 133.8 | 32.44 | 2.86 | 3 | 308.7 | 17.96 | .45 | — | — | — | 99 | 1 | — |
| **Gulf States Utilities Co** | 169 | 124.1 | 21.35 | .48 | 16 | 1,376.8 | 79.80 | — | 12,522 | 196.8 | 2.06 | 18 | 1 | 81 |
| Lewis Creek (TX) | — | — | — | — | — | — | — | — | 1,640 | 184.5 | 2.00 | — | — | 100 |
| Nelson (LA) | 169 | 124.1 | 21.35 | .48 | 16 | 1,376.8 | 79.80 | — | 2,333 | 185.9 | 1.94 | 54 | 2 | 45 |
| Sabine (TX) | — | — | — | — | — | — | — | — | 5,725 | 207.8 | 2.15 | — | — | 100 |
| Spindletop Storage (TX) | — | — | — | — | — | — | — | — | 404 | 185.1 | 1.92 | — | — | 100 |
| Willow Glen (LA) | — | — | — | — | — | — | — | — | 2,421 | 192.2 | 2.00 | — | — | 100 |
| **Hamilton City of** | 8 | 148.6 | 36.72 | .95 | — | — | — | — | 20 | 211.2 | 2.17 | 91 | — | 9 |
| Hamilton (OH) | 8 | 148.6 | 36.72 | .95 | — | — | — | — | 20 | 211.2 | 2.17 | 91 | — | 9 |
| **Hastings City of** | 52 | 64.1 | 10.65 | .35 | — | — | — | — | — | — | — | 100 | — | — |
| Hastings (NE) | 52 | 64.1 | 10.65 | .35 | — | — | — | — | — | — | — | 100 | — | — |
| **Hawaiian Electric Co Inc** | — | — | — | — | 564 | 222.2 | 13.99 | .40 | — | — | — | — | 100 | — |
| Kahe (HI) | — | — | — | — | 42 | 218.7 | 13.76 | .41 | — | — | — | — | 100 | — |
| Storage Facility #1 | — | — | — | — | 522 | 222.5 | 14.01 | .40 | — | — | — | — | 100 | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | | |
| **Holyoke Water Power Co** | **16** | **191.3** | **50.00** | **0.53** | **1** | **272.3** | **15.76** | **0.27** | **—** | **—** | **—** | **—** | **99** | **1** | **—** |
| Mount Tom (MA) | 16 | 191.3 | 50.00 | .53 | 1 | 272.3 | 15.76 | .27 | — | — | — | — | 99 | 1 | — |
| **Hoosier Energy R E C Inc** | **351** | **124.3** | **27.75** | **2.77** | * | **290.0** | **16.81** | **—** | **—** | **—** | **—** | **—** | **100** | * | **—** |
| Frank E Ratts (IN) | 55 | 137.2 | 30.26 | 1.29 | * | 290.0 | 16.81 | — | — | — | — | — | 100 | * | — |
| Merom (IN) | 296 | 122.0 | 27.28 | 3.05 | — | — | — | — | — | — | — | — | 100 | — | — |
| **Houston Lighting & Power Co** | **1,701** | **142.1** | **21.46** | **.63** | **—** | **—** | **—** | **—** | **9,423** | **196.1** | **2.00** | | **73** | **—** | **27** |
| Bertron (TX) | — | — | — | — | — | — | — | — | 555 | 198.3 | 2.00 | | — | — | 100 |
| Cedar Bayou (TX) | — | — | — | — | — | — | — | — | 2,798 | 197.5 | 2.02 | | — | — | 100 |
| Deepwater (TX) | — | — | — | — | — | — | — | — | 225 | 198.0 | 2.02 | | — | — | 100 |
| Green Bayou (TX) | — | — | — | — | — | — | — | — | 276 | 200.0 | 2.08 | | — | — | 100 |
| Limestone (TX) | 783 | 95.7 | 12.24 | .90 | — | — | — | — | 60 | 148.2 | 1.52 | | 99 | — | 1 |
| Parish (TX) | 918 | 171.8 | 29.34 | .40 | — | — | — | — | 321 | 195.6 | 2.03 | | 98 | — | 2 |
| Robinson (TX) | — | — | — | — | — | — | — | — | 2,380 | 191.4 | 1.96 | | — | — | 100 |
| Storage Facility #2 | — | — | — | — | — | — | — | — | 664 | 198.0 | 1.98 | | — | — | 100 |
| Webster (TX) | — | — | — | — | — | — | — | — | 313 | 198.0 | 2.01 | | — | — | 100 |
| Wharton (TX) | — | — | — | — | — | — | — | — | 1,831 | 199.2 | 2.01 | | — | — | 100 |
| **Illinois Power Co** | **649** | **113.7** | **24.90** | **2.25** | **1** | **284.6** | **16.74** | **.30** | **25** | **206.3** | **2.12** | | **100** | * | * |
| Baldwin (IL) | 387 | 105.2 | 22.67 | 2.82 | 1 | 284.6 | 16.74 | .30 | — | — | — | | 100 | * | — |
| Havana (IL) | 73 | 140.1 | 32.40 | .48 | — | — | — | — | — | — | — | | 100 | — | — |
| Hennepin (IL) | 86 | 114.1 | 24.45 | 2.84 | — | — | — | — | 6 | 208.3 | 2.15 | | 100 | — | * |
| Vermilion (IL) | 36 | 105.3 | 22.20 | 1.23 | — | — | — | — | 9 | 202.6 | 2.09 | | 99 | — | 1 |
| Wood River (IL) | 67 | 134.2 | 31.71 | .68 | — | — | — | — | 10 | 208.3 | 2.14 | | 99 | — | 1 |
| **Independence City of** | **22** | **135.2** | **29.05** | **3.54** | **—** | **—** | **—** | **—** | **2** | **291.8** | **2.95** | | **100** | **—** | * |
| Blue Valley (MO) | 22 | 135.2 | 29.05 | 3.54 | — | — | — | — | 2 | 291.8 | 2.95 | | 100 | — | * |
| **Indiana & Michigan Electric Co** | **1,152** | **112.5** | **22.02** | **.46** | **2** | **261.6** | **15.22** | **—** | **—** | **—** | **—** | | **100** | * | **—** |
| Rockport (IN) | 955 | 109.3 | 20.14 | .35 | — | — | — | — | — | — | — | | 100 | — | — |
| Tanners Creek (IN) | 197 | 123.8 | 31.11 | 1.00 | 2 | 261.6 | 15.22 | — | — | — | — | | 100 | * | — |
| **Indiana-Kentucky Electric Corp** | **447** | **118.9** | **24.71** | **.86** | **1** | **307.6** | **17.57** | **.30** | **—** | **—** | **—** | | **100** | * | **—** |
| Clifty Creek (IN) | 447 | 118.9 | 24.71 | .86 | 1 | 307.6 | 17.57 | .30 | — | — | — | | 100 | * | — |
| **Indianapolis Power & Light Co** | **635** | **97.3** | **21.67** | **2.25** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | | **100** | **—** | **—** |
| Petersburg (IN) | 444 | 91.6 | 20.55 | 2.73 | — | — | — | — | — | — | — | | 100 | — | — |
| Stout (IN) | 191 | 110.6 | 24.26 | 1.13 | — | — | — | — | — | — | — | | 100 | — | — |
| **Interstate Power Co** | **138** | **114.8** | **22.62** | **.39** | **—** | **—** | **—** | **—** | **97** | **342.4** | **3.42** | | **97** | **—** | **3** |
| Dubuque (IA) | — | — | — | — | — | — | — | — | 30 | 285.0 | 2.85 | | — | — | 100 |
| Fox Lake (MN) | — | — | — | — | — | — | — | — | 63 | 367.5 | 3.67 | | — | — | 100 |
| Kapp (IA) | 53 | 132.4 | 30.92 | .49 | — | — | — | — | 3 | 392.1 | 3.92 | | 100 | — | * |
| Lansing (IA) | 86 | 100.3 | 17.50 | .33 | — | — | — | — | — | — | — | | 100 | — | — |
| **IES Utilities** | **486** | **90.0** | **15.17** | **.34** | **—** | **—** | **—** | **—** | **150** | **349.4** | **3.49** | | **98** | **—** | **2** |
| Burlington (IA) | 65 | 80.4 | 13.50 | .45 | — | — | — | — | 3 | 591.3 | 5.91 | | 100 | — | * |
| Ottumwa (IA) | 247 | 97.2 | 16.26 | .32 | — | — | — | — | — | — | — | | 100 | — | — |
| Praire Creek (IA) | 113 | 82.7 | 13.79 | .33 | — | — | — | — | 57 | 392.5 | 3.92 | | 97 | — | 3 |
| Sutherland (IA) | 50 | 71.6 | 12.54 | .29 | — | — | — | — | 43 | 260.8 | 2.61 | | 95 | — | 5 |
| 6th St (IA) | 11 | 143.3 | 27.12 | .34 | — | — | — | — | 47 | 363.8 | 3.64 | | 81 | — | 19 |
| **Jacksonville Electric Auth** | **253** | **160.9** | **39.09** | **.98** | **341** | **173.5** | **10.92** | **1.71** | **204** | **214.2** | **2.29** | | **72** | **25** | **3** |
| Kennedy (FL) | — | — | — | — | 11 | 285.4 | 17.00 | .29 | 3 | 214.2 | 2.29 | | — | 95 | 5 |
| Northside (FL) | — | — | — | — | 327 | 169.2 | 10.68 | 1.77 | 195 | 214.2 | 2.29 | | — | 91 | 9 |
| Southside (FL) | — | — | — | — | — | — | — | — | 6 | 214.2 | 2.29 | | — | — | 100 |
| St Johns River (FL) | 253 | 160.9 | 39.09 | .98 | 3 | 260.9 | 15.23 | .35 | — | — | — | | 100 | * | — |
| **Jamestown City of** | **9** | **128.6** | **32.38** | **1.63** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | | **100** | **—** | **—** |
| Samuel A Carlson (NY) | 9 | 128.6 | 32.38 | 1.63 | — | — | — | — | — | — | — | | 100 | — | — |
| **Jersey Central Power&Light Co** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | * | **260.0** | **2.70** | | **—** | **—** | **100** |
| Sayreville (NJ) | — | — | — | — | — | — | — | — | * | 260.0 | 2.70 | | — | — | 100 |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Kansas City City of** | **205** | **71.3** | **11.93** | **0.41** | **—** | **—** | **—** | **—** | **40** | **204.0** | **2.06** | **99** | **—** | **1** |
| Nearman (KS) | 162 | 66.8 | 11.04 | .44 | — | — | — | — | — | — | — | 100 | — | — |
| Quindaro (KS) | 43 | 87.4 | 15.29 | .30 | — | — | — | — | 40 | 204.0 | 2.06 | 95 | — | 5 |
| **Kansas City Power & Light Co** | **850** | **74.1** | **12.92** | **.45** | **5** | **274.3** | **15.98** | **—** | **—** | **—** | **—** | **100** | ***** | **—** |
| Hawthorne (MO) | 85 | 67.7 | 11.95 | .23 | — | — | — | — | — | — | — | 100 | — | — |
| Iatan (MO) | 260 | 79.9 | 13.91 | .36 | — | — | — | — | — | — | — | 100 | — | — |
| La Cygne (KS) | 392 | 67.1 | 11.64 | .63 | — | — | — | — | — | — | — | 100 | — | — |
| Montrose (MO) | 113 | 89.4 | 15.78 | .21 | 5 | 274.3 | 15.98 | — | — | — | — | 99 | 1 | — |
| **Kansas Gas & Electric Co** | **—** | **—** | **—** | **—** | **8** | **88.3** | **6.10** | **1.50** | **280** | **182.5** | **1.77** | **—** | **17** | **83** |
| Evans (KS) | — | — | — | — | — | — | — | — | 239 | 182.5 | 1.77 | — | — | 100 |
| Gill (KS) | — | — | — | — | 8 | 88.3 | 6.10 | 1.50 | 41 | 182.5 | 1.77 | — | 58 | 42 |
| **Kansas Power & Light Co** | **920** | **102.9** | **17.79** | **.37** | **—** | **—** | **—** | **—** | **58** | **173.6** | **1.77** | **100** | **—** | ***** |
| Hutchinson (KS) | — | — | — | — | — | — | — | — | 2 | 128.1 | 1.43 | — | — | 100 |
| Jeffrey Energy Cnt (KS) | 716 | 107.1 | 18.05 | .37 | — | — | — | — | — | — | — | 100 | — | — |
| Lawrence (KS) | 128 | 89.6 | 16.86 | .35 | — | — | — | — | 42 | 175.2 | 1.78 | 98 | — | 2 |
| Tecumseh (KS) | 76 | 89.6 | 16.86 | .35 | — | — | — | — | 14 | 174.9 | 1.78 | 99 | — | 1 |
| **Kentucky Power Co** | **261** | **108.0** | **26.30** | **1.21** | **2** | **251.2** | **14.69** | **—** | **—** | **—** | **—** | **100** | ***** | **—** |
| Big Sandy (KY) | 261 | 108.0 | 26.30 | 1.21 | 2 | 251.2 | 14.69 | — | — | — | — | 100 | * | — |
| **Kentucky Utilities Co** | **677** | **114.2** | **27.57** | **1.28** | **2** | **349.5** | **20.55** | **.40** | **—** | **—** | **—** | **100** | ***** | **—** |
| Brown (KY) | 147 | 117.2 | 28.42 | 1.41 | — | — | — | — | — | — | — | 100 | — | — |
| Ghent (KY) | 506 | 113.9 | 27.50 | 1.21 | 2 | 349.5 | 20.55 | .40 | — | — | — | 100 | * | — |
| Green River (KY) | 24 | 101.3 | 23.81 | 2.08 | — | — | — | — | — | — | — | 100 | — | — |
| **Lafayette City of** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **490** | **185.7** | **1.96** | **—** | **—** | **100** |
| Bonin (LA) | — | — | — | — | — | — | — | — | 490 | 185.7 | 1.96 | — | — | 100 |
| **Lake Worth City of** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **124** | **201.0** | **2.13** | **—** | **—** | **100** |
| Tom G Smith (FL) | — | — | — | — | — | — | — | — | 124 | 201.0 | 2.13 | — | — | 100 |
| **Lakeland City of** | **31** | **180.3** | **46.01** | **1.38** | **—** | **—** | **—** | **—** | **312** | **329.9** | **3.50** | **71** | **—** | **29** |
| Larsen Mem (FL) | — | — | — | — | — | — | — | — | 185 | 329.9 | 3.50 | — | — | 100 |
| Plant 3-Mcintosh (FL) | 31 | 180.3 | 46.01 | 1.38 | — | — | — | — | 127 | 329.9 | 3.50 | 85 | — | 15 |
| **Lansing City of** | **91** | **156.6** | **37.00** | **.74** | **1** | **341.0** | **19.76** | **.30** | **—** | **—** | **—** | **100** | ***** | **—** |
| Eckert (MI) | 41 | 151.0 | 32.70 | .58 | 1 | 341.0 | 19.76 | .30 | — | — | — | 99 | 1 | — |
| Erickson (MI) | 49 | 160.5 | 40.58 | .88 | * | 341.0 | 19.76 | .30 | — | — | — | 100 | * | — |
| **Long Island Lighting Co** | **—** | **—** | **—** | **—** | **736** | **126.4** | **8.05** | **.94** | **1,868** | **232.1** | **2.41** | **—** | **71** | **29** |
| Barrett (NY) | — | — | — | — | — | — | — | — | 949 | 231.1 | 2.41 | — | — | 100 |
| Far Rockaway (NY) | — | — | — | — | — | — | — | — | 151 | 237.0 | 2.48 | — | — | 100 |
| Glenwood (NY) | — | — | — | — | — | — | — | — | 250 | 241.0 | 2.51 | — | — | 100 |
| Northport (NY) | — | — | — | — | 524 | 123.1 | 7.83 | .93 | 480 | 228.0 | 2.32 | — | 87 | 13 |
| Port Jefferson (NY) | — | — | — | — | 212 | 134.7 | 8.60 | .97 | 37 | 229.0 | 2.33 | — | 97 | 3 |
| **Los Angeles City of** | **446** | **154.5** | **35.82** | **.53** | **—** | **—** | **—** | **—** | **1,651** | **339.1** | **3.46** | **86** | **—** | **14** |
| Haynes (CA) | — | — | — | — | — | — | — | — | 908 | 339.1 | 3.44 | — | — | 100 |
| Intermountain (UT) | 446 | 154.5 | 35.82 | .53 | — | — | — | — | — | — | — | 100 | — | — |
| Scattergood (CA) | — | — | — | — | — | — | — | — | 743 | 339.1 | 3.49 | — | — | 100 |
| **Louisiana Power & Light Co** | **—** | **—** | **—** | **—** | **5** | **174.7** | **11.34** | **1.00** | **6,095** | **[2] 218.1** | **2.27** | **—** | ***** | **100** |
| Little Gypsy (LA) | — | — | — | — | — | — | — | — | 876 | 193.7 | 2.02 | — | — | 100 |
| Nine Mile (LA) | — | — | — | — | — | — | — | — | 3,248 | 218.3 | 2.28 | — | — | 100 |
| Sterlington (LA) | — | — | — | — | — | — | — | — | 1,971 | [2] 228.5 | 2.37 | — | — | 100 |
| Waterford (LA) | — | — | — | — | 5 | 174.7 | 11.34 | 1.00 | — | — | — | — | 100 | — |
| **Louisville Gas & Electric Co** | **450** | **96.5** | **21.54** | **3.45** | **15** | **350.0** | **20.58** | **.25** | **60** | **291.4** | **2.99** | **99** | **1** | **1** |
| Cane Run (KY) | 175 | 98.3 | 22.23 | 3.30 | — | — | — | — | 26 | 291.3 | 2.99 | 99 | — | 1 |
| Mill Creek (KY) | 170 | 98.5 | 21.85 | 3.47 | 15 | 350.0 | 20.58 | .25 | 34 | 291.4 | 2.99 | 97 | 2 | 1 |
| Trimble County (KY) | 105 | 90.2 | 19.90 | 3.65 | — | — | — | — | — | — | — | 100 | — | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Lower Colorado River Authority** | **614** | **92.2** | **15.82** | **0.33** | **—** | **—** | **—** | **—** | **2,109** | **182.9** | **1.86** | **83** | **—** | **17** |
| Gideon (TX) | — | — | — | — | — | — | — | — | 1,142 | 181.7 | 1.84 | — | — | 100 |
| S Seymour-Fayette (TX) | 614 | 92.2 | 15.82 | .33 | — | — | — | — | — | — | — | 100 | — | — |
| T C Ferguson (TX) | — | — | — | — | — | — | — | — | 968 | 184.4 | 1.88 | — | — | 100 |
| **Lubbock City of** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **1** | **200.1** | **2.08** | **—** | **—** | **100** |
| Holly Ave (TX) | — | — | — | — | — | — | — | — | 1 | 200.1 | 2.08 | — | — | 100 |
| **Madison Gas & Electric Co** | **12** | **147.6** | **32.16** | **1.39** | **—** | **—** | **—** | **—** | **123** | **245.3** | **2.47** | **68** | **—** | **32** |
| Blount (WI) | 12 | 147.6 | 32.16 | 1.39 | — | — | — | — | 123 | 245.3 | 2.47 | 68 | — | 32 |
| **Manitowoc Public Utilities** | **2** | **186.3** | **48.99** | **1.18** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Manitowoc (WI) | 2 | 186.3 | 48.99 | 1.18 | — | — | — | — | — | — | — | 100 | — | — |
| **Massachusetts Mun Wholes El Co** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **45** | **206.7** | **2.12** | **—** | **—** | **100** |
| Stonybrook (MA) | — | — | — | — | — | — | — | — | 45 | 206.7 | 2.12 | — | — | 100 |
| **Medina Electric Coop Inc** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **4** | **200.0** | **2.41** | **—** | **—** | **100** |
| Pearsall (TX) | — | — | — | — | — | — | — | — | 4 | 200.0 | 2.41 | — | — | 100 |
| **Metropolitan Edison Co** | **91** | **138.6** | **36.64** | **1.49** | ***** | **271.3** | **15.50** | **0.24** | **—** | **—** | **—** | **100** | ***** | **—** |
| Portland (PA) | 58 | 140.5 | 37.03 | 1.45 | — | — | — | — | — | — | — | 100 | — | — |
| Titus (PA) | 34 | 135.3 | 35.98 | 1.55 | * | 271.3 | 15.50 | .24 | — | — | — | 100 | * | — |
| **Michigan South Central Pwr Agy** | **7** | **153.9** | **37.03** | **3.20** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Project I (MI) | 7 | 153.9 | 37.03 | 3.20 | — | — | — | — | — | — | — | 100 | — | — |
| **MidAmerican Energy** | **1,071** | **71.7** | **12.03** | **.36** | **4** | **268.3** | **15.33** | **—** | **35** | **373.1** | **3.75** | **100** | ***** | ***** |
| Council Bluffs (IA) | 225 | 57.4 | 9.60 | .40 | 4 | 268.3 | 15.33 | — | 3 | 359.0 | 3.56 | 99 | 1 | * |
| George Neal 1-4 (IA) | 576 | 70.0 | 11.75 | .35 | — | — | — | — | 7 | 436.4 | 4.44 | 100 | — | * |
| Louisa (IA) | 237 | 88.4 | 14.75 | .35 | — | — | — | — | 2 | 265.3 | 2.74 | 100 | — | * |
| Riverside (IA) | 33 | 79.6 | 13.87 | .28 | — | — | — | — | 23 | 365.0 | 3.65 | 96 | — | 4 |
| **Minnesota Power & Light Co** | **297** | **114.3** | **20.55** | **.56** | **2** | **301.5** | **17.35** | **.20** | **—** | **—** | **—** | **100** | ***** | **—** |
| Boswell Energy Center (MN) | 273 | 114.0 | 20.40 | .58 | 1 | 295.3 | 16.99 | .20 | — | — | — | 100 | * | — |
| Laskin Energy Center (MN) | 24 | 118.4 | 22.26 | .41 | * | 349.2 | 20.09 | .20 | — | — | — | 100 | * | — |
| **Minnkota Power Coop Inc** | **318** | **59.6** | **7.92** | **1.00** | **3** | **282.9** | **16.63** | **.40** | **—** | **—** | **—** | **100** | ***** | **—** |
| Young (ND) | 318 | 59.6 | 7.92 | 1.00 | 3 | 282.9 | 16.63 | .40 | — | — | — | 100 | * | — |
| **Mississippi Power & Light Co** | **—** | **—** | **—** | **—** | **882** | **145.3** | **9.61** | **1.64** | **2,350** | **189.9** | **1.96** | **—** | **71** | **29** |
| Brown (MS) | — | — | — | — | — | — | — | — | 191 | 187.4 | 1.95 | — | — | 100 |
| Delta (MS) | — | — | — | — | — | — | — | — | 68 | 195.0 | 2.00 | — | — | 100 |
| Gerald Andrus (MS) | — | — | — | — | 409 | 147.6 | 9.76 | 2.95 | 27 | 188.7 | 1.95 | — | 99 | 1 |
| Wilson (MS) | — | — | — | — | 473 | 143.3 | 9.48 | .50 | 2,064 | 190.0 | 1.96 | — | 59 | 41 |
| **Mississippi Power Co** | **464** | **144.6** | **30.80** | **.70** | **1** | **252.8** | **14.63** | **.37** | **86** | **199.7** | **2.08** | **99** | ***** | **1** |
| Daniel (MS) | 239 | 149.1 | 29.59 | .39 | 1 | 252.8 | 14.63 | .37 | — | — | — | 100 | * | — |
| Sweatt (MS) | — | — | — | — | — | — | — | — | 2 | 206.2 | 2.13 | — | — | 100 |
| Watson (MS) | 225 | 140.4 | 32.08 | 1.04 | — | — | — | — | 85 | 199.6 | 2.08 | 98 | — | 2 |
| **Monongahela Power Co** | **1,116** | **103.7** | **25.90** | **3.16** | **9** | **299.9** | **17.76** | **.30** | **38** | **293.4** | **2.93** | **100** | ***** | ***** |
| Albright (WV) | 28 | 105.5 | 26.28 | 1.48 | 1 | 309.1 | 18.30 | .30 | — | — | — | 100 | * | — |
| Ft Martin (WV) | 242 | 99.9 | 25.91 | 1.81 | 2 | 288.9 | 17.11 | .30 | — | — | — | 100 | * | — |
| Harrison (WV) | 504 | 111.4 | 27.80 | 3.48 | 1 | 304.0 | 18.00 | .30 | 20 | 323.2 | 3.23 | 100 | * | * |
| Pleasants (WV) | 317 | 93.2 | 22.61 | 3.98 | 6 | 301.8 | 17.87 | .30 | 15 | 258.8 | 2.59 | 99 | * | * |
| Rivesville (WV) | 8 | 116.9 | 28.76 | 1.02 | — | — | — | — | — | — | — | 100 | — | — |
| Willow Island (WV) | 16 | 111.4 | 29.32 | 1.34 | — | — | — | — | 3 | 269.2 | 2.69 | 99 | — | 1 |
| **Montana Power Co** | **804** | **65.5** | **11.18** | **.66** | **1** | **349.9** | **20.72** | **—** | **4** | **508.3** | **5.31** | **100** | ***** | ***** |
| Colstrip (MT) | 752 | 66.1 | 11.30 | .69 | 1 | 349.9 | 20.72 | — | — | — | — | 100 | * | — |
| Corette (MT) | 52 | 56.7 | 9.42 | .24 | — | — | — | — | 4 | 508.3 | 5.31 | 100 | — | * |
| **Montana-Dakota Utilities Co** | **240** | **86.3** | **11.95** | **.96** | **—** | **—** | **—** | **—** | ***** | **348.6** | **3.97** | **100** | **—** | ***** |
| Coyote (ND) | 178 | 81.1 | 11.25 | 1.09 | — | — | — | — | — | — | — | 100 | — | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Montana-Dakota Utilities Co** | | | | | | | | | | | | | | |
| Heskett (ND) | 38 | 109.0 | 15.32 | 0.63 | — | — | — | — | * | 459.9 | 4.78 | 100 | — | * |
| Lewis and Clark (MT) | 25 | 88.7 | 11.78 | .50 | — | — | — | — | * | 340.2 | 3.90 | 100 | — | * |
| **Morgan City City of** | — | — | — | — | — | — | — | — | 71 | 194.0 | 2.08 | — | — | 100 |
| Morgan City (LA) | — | — | — | — | — | — | — | — | 71 | 194.0 | 2.08 | — | — | 100 |
| **Nebraska Public Power District** | 552 | 50.0 | 8.62 | .25 | * | 300.4 | 17.43 | — | 13 | 393.1 | 3.93 | 100 | * | * |
| Gerald Gentleman (NE) | 447 | 47.4 | 8.15 | .26 | * | 300.4 | 17.43 | — | 11 | 367.5 | 3.67 | 100 | * | * |
| Sheldon (NE) | 105 | 61.3 | 10.63 | .22 | — | — | — | — | 2 | 533.1 | 5.33 | 100 | — | * |
| **Nevada Power Co** | 211 | 132.6 | 30.74 | .52 | 2 | 302.2 | 17.66 | 0.30 | 1,621 | 195.0 | 2.02 | 74 | * | 25 |
| Clark (NV) | — | — | — | — | — | — | — | — | 1,621 | 195.0 | 2.02 | — | — | 100 |
| Gardner (NV) | 211 | 132.6 | 30.74 | .52 | 2 | 302.2 | 17.66 | .30 | — | — | — | 100 | * | — |
| **New Orleans Public Service Inc** | — | — | — | — | 100 | 168.2 | 11.04 | 1.50 | 2,152 | 185.9 | 1.94 | — | 23 | 77 |
| Michoud (LA) | — | — | — | — | 100 | 168.2 | 11.04 | 1.50 | 2,152 | 185.9 | 1.94 | — | 23 | 77 |
| **New York State Elec & Gas Corp** | 342 | 134.4 | 34.76 | 2.26 | 1 | 391.8 | 22.54 | .14 | — | — | — | 100 | * | — |
| Goudey (NY) | 23 | 139.8 | 37.32 | 2.37 | * | 519.0 | 29.86 | .14 | — | — | — | 100 | * | — |
| Greenidge (NY) | 42 | 140.6 | 37.28 | 1.49 | 1 | 362.0 | 20.83 | .14 | — | — | — | 100 | * | — |
| Hickling (NY) | 21 | 129.0 | 25.56 | .96 | — | — | — | — | — | — | — | 100 | — | — |
| Kintigh (NY) | 192 | 132.4 | 34.68 | 2.54 | * | 365.0 | 21.00 | .14 | — | — | — | 100 | * | — |
| Milliken (NY) | 64 | 135.6 | 35.42 | 2.34 | * | 430.0 | 24.74 | .14 | — | — | — | 100 | * | — |
| **Niagara Mohawk Power Corp** | 213 | 137.6 | 36.25 | 2.02 | 2 | 268.6 | 14.88 | .34 | 107 | 213.1 | 2.19 | 98 | * | 2 |
| Albany (NY) | — | — | — | — | — | — | — | — | 53 | 211.1 | 2.17 | — | — | 100 |
| Dunkirk (NY) | 85 | 129.9 | 34.33 | 2.09 | 1 | 272.0 | 15.07 | .35 | — | — | — | 100 | * | — |
| Huntley (NY) | 128 | 142.8 | 37.53 | 1.98 | 1 | 266.0 | 14.74 | .33 | — | — | — | 100 | * | — |
| Oswego (NY) | — | — | — | — | — | — | — | — | 55 | 215.0 | 2.20 | — | — | 100 |
| **Northern Indiana Pub Serv Co** | 695 | 126.5 | 25.72 | 1.72 | — | — | — | — | 50 | 255.8 | 2.64 | 100 | — | * |
| Bailly (IN) | 124 | 126.3 | 27.75 | 2.74 | — | — | — | — | 1 | 316.6 | 3.27 | 100 | — | * |
| Michigan City (IN) | 76 | 141.9 | 27.29 | .47 | — | — | — | — | 7 | 312.8 | 3.23 | 100 | — | * |
| Mitchell (IN) | 68 | 129.2 | 23.75 | .40 | — | — | — | — | 17 | 251.4 | 2.59 | 99 | — | 1 |
| Rollin Schahfer (IN) | 426 | 123.5 | 25.17 | 1.86 | — | — | — | — | 25 | 239.6 | 2.47 | 100 | — | * |
| **Northern States Power Co** | 787 | 107.7 | 19.04 | .38 | — | — | — | — | 36 | 438.5 | 4.45 | 100 | — | * |
| Bay Front (WI) | 7 | 165.1 | 38.77 | .64 | — | — | — | — | 25 | 515.2 | 5.21 | 87 | — | 13 |
| Black Dog (MN) | 71 | 104.2 | 18.72 | .18 | — | — | — | — | — | — | — | 100 | — | — |
| High Bridge (MN) | 85 | 106.0 | 18.76 | .18 | — | — | — | — | 8 | 255.8 | 2.63 | 99 | — | 1 |
| King (MN) | 180 | 108.5 | 19.25 | .30 | — | — | — | — | 1 | 218.6 | 2.24 | 100 | — | * |
| Riverside (MN) | 104 | 98.7 | 17.47 | .18 | — | — | — | — | 1 | 272.0 | 2.77 | 100 | — | * |
| Sherburne County (MN) | 340 | 109.6 | 19.13 | .56 | — | — | — | — | — | — | — | 100 | — | — |
| **Ohio Edison Co** | 581 | 111.4 | 27.23 | 1.48 | 4 | 291.1 | 17.05 | .29 | — | — | — | 100 | * | — |
| Burger (OH) | 57 | 98.2 | 24.53 | 2.35 | * | 468.2 | 27.34 | .17 | — | — | — | 100 | * | — |
| Edgewater (OH) | — | — | — | — | 3 | 287.6 | 16.92 | .33 | — | — | — | — | 100 | — |
| Niles (OH) | 58 | 107.0 | 25.41 | 2.55 | * | 250.1 | 14.56 | .32 | — | — | — | 100 | * | — |
| Sammis (OH) | 466 | 113.6 | 27.80 | 1.24 | 1 | 242.2 | 14.07 | .23 | — | — | — | 100 | * | — |
| **Ohio Power Co** | 1,381 | 147.1 | 34.80 | 2.58 | 2 | 280.0 | 16.20 | — | — | — | — | 100 | * | — |
| Gavin (OH) | 651 | 139.6 | 31.87 | 3.47 | — | — | — | — | — | — | — | 100 | — | — |
| Kammer (WV) | 124 | 86.4 | 21.09 | 3.78 | * | 254.5 | 14.93 | — | — | — | — | 100 | * | — |
| Mitchell (WV) | 327 | 141.7 | 35.13 | .76 | — | — | — | — | — | — | — | 100 | — | — |
| Muskingum (OH) | 279 | 197.6 | 47.34 | 2.11 | 2 | 282.6 | 16.33 | — | — | — | — | 100 | * | — |
| **Ohio Valley Electric Corp** | 244 | 111.4 | 28.72 | 2.19 | 1 | 302.1 | 17.26 | .30 | — | — | — | 100 | * | — |
| Kyger Creek (OH) | 244 | 111.4 | 28.72 | 2.19 | 1 | 302.1 | 17.26 | .30 | — | — | — | 100 | * | — |
| **Oklahoma Gas & Electric Co** | 914 | 82.7 | 14.23 | .29 | — | — | — | — | 2,991 | 284.4 | 2.95 | 84 | — | 16 |
| Muskogee (OK) | 535 | 85.7 | 14.80 | .27 | — | — | — | — | 20 | 284.4 | 2.95 | 100 | — | * |
| Seminole (OK) | — | — | — | — | — | — | — | — | 2,971 | 284.4 | 2.95 | — | — | 100 |
| Sooner (OK) | 379 | 78.3 | 13.43 | .32 | — | — | — | — | — | — | — | 100 | — | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Omaha Public Power District** | **352** | **61.0** | **10.17** | **0.34** | **2** | **278.0** | **16.05** | **0.20** | **22** | **234.9** | **2.35** | **99** | * | * |
| Nebraska City (NE) | 172 | 56.1 | 9.32 | .35 | 2 | 278.0 | 16.05 | .20 | — | — | — | 100 | * | — |
| North Omaha (NE) | 180 | 65.7 | 10.99 | .33 | — | — | — | — | 22 | 234.9 | 2.35 | 99 | — | 1 |
| **Orange & Rockland Utils Inc** | **58** | **186.4** | **48.30** | **.56** | **80** | **169.1** | **10.48** | **.35** | **1,397** | **219.2** | **2.28** | **44** | **14** | **42** |
| Bowline (NY) | — | — | — | — | 80 | 169.1 | 10.48 | .35 | 1,169 | 218.4 | 2.27 | — | 29 | 71 |
| Lovett (NY) | 58 | 186.4 | 48.30 | .56 | — | — | — | — | 228 | 223.4 | 2.32 | 86 | — | 14 |
| **Orlando Utilities Comm** | **143** | **177.4** | **45.52** | **1.09** | **—** | **—** | **—** | **—** | **329** | **308.0** | **3.27** | **91** | **—** | **9** |
| Indian River (FL) | — | — | — | — | — | — | — | — | 329 | 308.0 | 3.27 | — | — | 100 |
| Stanton Energy (FL) | 143 | 177.4 | 45.52 | 1.09 | — | — | — | — | — | — | — | 100 | — | — |
| **Orrville City of** | **14** | **101.4** | **23.51** | **3.30** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Orrville (OH) | 14 | 101.4 | 23.51 | 3.30 | — | — | — | — | — | — | — | 100 | — | — |
| **Otter Tail Power Co** | **187** | **96.0** | **16.83** | **.69** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Big Stone (SD) | 167 | 92.5 | 16.09 | .73 | — | — | — | — | — | — | — | 100 | — | — |
| Hoot Lake (MN) | 20 | 122.7 | 22.98 | .35 | — | — | — | — | — | — | — | 100 | — | — |
| **Owensboro City of** | **100** | **94.8** | **20.46** | **3.32** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Smith (KY) | 100 | 94.8 | 20.46 | 3.32 | — | — | — | — | — | — | — | 100 | — | — |
| **Pacific Gas & Electric Co** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **6,790** | **241.7** | **2.49** | **—** | **—** | **100** |
| Contra Costa (CA) | — | — | — | — | — | — | — | — | 2,138 | 241.7 | 2.48 | — | — | 100 |
| Humboldt Bay (CA) | — | — | — | — | — | — | — | — | 271 | 241.7 | 2.48 | — | — | 100 |
| Hunters Point (CA) | — | — | — | — | — | — | — | — | 622 | 241.7 | 2.47 | — | — | 100 |
| Pittsburg (CA) | — | — | — | — | — | — | — | — | 2,916 | 241.7 | 2.50 | — | — | 100 |
| Potrero (CA) | — | — | — | — | — | — | — | — | 844 | 241.7 | 2.47 | — | — | 100 |
| **PacifiCorp** | **2,258** | **100.7** | **18.87** | **.57** | **3** | **457.1** | **26.88** | **.30** | **227** | **221.5** | **2.36** | **99** | * | **1** |
| Carbon (UT) | 50 | 64.1 | 15.56 | .48 | — | — | — | — | — | — | — | 100 | — | — |
| Centralia (WA) | 408 | 164.1 | 27.14 | .70 | — | — | — | — | — | — | — | 100 | — | — |
| Emery-Hunter (UT) | 346 | 65.7 | 14.88 | .52 | — | — | — | — | — | — | — | 100 | — | — |
| Gadsby (UT) | — | — | — | — | — | — | — | — | 213 | 205.6 | 2.19 | — | — | 100 |
| Huntington (UT) | 57 | 92.3 | 22.75 | .40 | — | — | — | — | — | — | — | 100 | — | — |
| Jim Bridger (WY) | 713 | 110.4 | 20.82 | .55 | — | — | — | — | — | — | — | 100 | — | — |
| Johnston (WY) | 316 | 51.6 | 8.11 | .46 | 3 | 457.1 | 26.88 | .30 | — | — | — | 100 | * | — |
| Naughton (WY) | 205 | 121.5 | 24.25 | .74 | — | — | — | — | 14 | 462.2 | 4.83 | 100 | — | * |
| Wyodak (WY) | 163 | 74.1 | 11.81 | .47 | — | — | — | — | — | — | — | 100 | — | — |
| **Painesville City of** | **8** | **129.7** | **32.70** | **2.55** | **—** | **—** | **—** | **—** | * | **422.1** | **4.22** | **100** | **—** | * |
| Painesville (OH) | 8 | 129.7 | 32.70 | 2.55 | — | — | — | — | * | 422.1 | 4.22 | 100 | — | * |
| **Pasadena City of** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **110** | **331.1** | **3.39** | **—** | **—** | **100** |
| Broadway (CA) | — | — | — | — | — | — | — | — | 110 | 331.1 | 3.39 | — | — | 100 |
| **Pennsylvania Electric Co** | **1,584** | **117.8** | **28.49** | **2.12** | **3** | **269.4** | **15.71** | **.05** | * | **477.7** | **4.95** | **100** | * | * |
| Conemaugh (PA) | 468 | 106.7 | 26.91 | 2.31 | — | — | — | — | * | 477.7 | 4.95 | 100 | — | * |
| Homer City (PA) | 506 | 117.0 | 26.33 | 2.44 | 1 | 232.6 | 13.56 | .05 | — | — | — | 100 | * | — |
| Keystone (PA) | 437 | 132.5 | 32.92 | 1.69 | — | — | — | — | — | — | — | 100 | — | — |
| Seward (PA) | 29 | 110.3 | 26.97 | 1.65 | 1 | 270.5 | 15.77 | .05 | — | — | — | 99 | 1 | — |
| Shawville (PA) | 133 | 113.2 | 27.86 | 1.76 | 2 | 277.8 | 16.19 | .05 | — | — | — | 100 | * | — |
| Warren (PA) | 11 | 121.2 | 30.18 | 1.69 | — | — | — | — | — | — | — | 100 | — | — |
| **Pennsylvania Power & Light Co** | **424** | **141.9** | **36.69** | **1.69** | **647** | **217.1** | **13.88** | **.93** | **11** | **212.0** | **2.19** | **73** | **27** | * |
| Brunner Island (PA) | 219 | 143.8 | 37.55 | 1.52 | 5 | 328.4 | 18.87 | .11 | — | — | — | 100 | * | — |
| Holtwood (PA) | 1 | 133.3 | 29.57 | 1.16 | — | — | — | — | — | — | — | 100 | — | — |
| Martins Creek (PA) | 1 | 144.8 | 35.99 | 2.02 | — | — | — | — | 11 | 212.0 | 2.19 | 69 | — | 31 |
| Montour (PA) | 182 | 141.1 | 36.30 | 1.93 | 10 | 292.2 | 17.02 | .08 | — | — | — | 99 | 1 | — |
| Storage Facility #1 | — | — | — | — | 632 | 215.2 | 13.79 | .95 | — | — | — | — | 100 | — |
| Sunbury (PA) | 21 | 128.5 | 31.43 | 1.39 | — | — | — | — | — | — | — | 100 | — | — |
| **Pennsylvania Power Co** | **434** | **188.0** | **45.67** | **3.61** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Bruce Mansfield (PA) | 376 | 199.2 | 48.51 | 3.92 | — | — | — | — | — | — | — | 100 | — | — |
| New Castle (PA) | 58 | 114.4 | 27.32 | 1.59 | — | — | — | — | — | — | — | 100 | — | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Philadelphia Electric Co** | **88** | **144.4** | **38.18** | **1.69** | **146** | **216.0** | **13.64** | **0.42** | **27** | **208.3** | **2.16** | **71** | **28** | **1** |
| Cromby (PA) | 19 | 143.5 | 37.78 | 1.69 | 27 | 218.9 | 13.90 | .62 | 10 | 208.3 | 2.16 | 73 | 25 | 1 |
| Delaware (PA) | — | — | — | — | 40 | 210.1 | 13.47 | .36 | — | — | — | — | 100 | — |
| Eddystone (PA) | 69 | 144.6 | 38.29 | 1.69 | 79 | 218.1 | 13.64 | .38 | 17 | 208.3 | 2.16 | 78 | 21 | 1 |
| **Plains Elec Gen&Trans Coop Inc** | **99** | **130.6** | **23.81** | **.82** | **—** | **—** | **—** | **—** | **28** | **296.3** | **2.47** | **99** | **—** | **1** |
| Escalante (NM) | 99 | 130.6 | 23.81 | .82 | — | — | — | — | 28 | 296.3 | 2.47 | 99 | — | 1 |
| **Platte River Power Authority** | **92** | **59.7** | **10.53** | **.21** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Rawhide (CO) | 92 | 59.7 | 10.53 | .21 | — | — | — | — | — | — | — | 100 | — | — |
| **Portland General Electric Co** | **254** | **106.8** | **19.80** | **.39** | **—** | **—** | **—** | **—** | **941** | **181.4** | **1.83** | **83** | **—** | **17** |
| Beaver (OR) | — | — | — | — | — | — | — | — | 455 | 209.8 | 2.12 | — | — | 100 |
| Boardman (OR) | 254 | 106.8 | 19.80 | .39 | — | — | — | — | — | — | — | 100 | — | — |
| Coyote Springs (OR) | — | — | — | — | — | — | — | — | 486 | 154.8 | 1.56 | — | — | 100 |
| **Potomac Edison Co** | **8** | **131.9** | **33.07** | **.98** | ***** | **300.3** | **17.78** | **.30** | **—** | **—** | **—** | **99** | **1** | **—** |
| Smith (MD) | 8 | 131.9 | 33.07 | .98 | * | 300.3 | 17.78 | .30 | — | — | — | 99 | 1 | — |
| **Potomac Electric Power Co** | **534** | **143.0** | **37.64** | **1.58** | **—** | **—** | **—** | **—** | **87** | **349.9** | **3.64** | **99** | **—** | **1** |
| Chalk (MD) | 95 | 151.4 | 39.65 | 1.55 | — | — | — | — | 87 | 349.9 | 3.64 | 97 | — | 3 |
| Dickerson (MD) | 134 | 131.9 | 34.63 | 1.37 | — | — | — | — | — | — | — | 100 | — | — |
| Morgantown (MD) | 260 | 143.8 | 38.12 | 1.83 | — | — | — | — | — | — | — | 100 | — | — |
| Potomac River (VA) | 45 | 154.4 | 39.63 | .87 | — | — | — | — | — | — | — | 100 | — | — |
| **Power Authority of State of NY** | **—** | **—** | **—** | **—** | **198** | **167.5** | **10.49** | **.29** | **699** | **496.1** | **5.04** | **—** | **64** | **36** |
| Poletti (NY) | — | — | — | — | 198 | 167.5 | 10.49 | .29 | 3 | 281.0 | 2.93 | — | 100 | * |
| Richard Flynn (NY) | — | — | — | — | — | — | — | — | 696 | 497.0 | 5.05 | — | — | 100 |
| **Public Service Co of Colorado** | **790** | **91.8** | **18.03** | **.40** | **—** | **—** | **—** | **—** | **131** | **174.3** | **1.73** | **99** | **—** | **1** |
| Arapahoe (CO) | 67 | 83.0 | 14.55 | .25 | — | — | — | — | 9 | 122.0 | 1.20 | 99 | — | 1 |
| Cameo (CO) | 21 | 96.1 | 21.16 | .61 | — | — | — | — | 2 | 514.0 | 5.20 | 99 | — | 1 |
| Cherokee (CO) | 191 | 87.0 | 20.24 | .54 | — | — | — | — | 83 | 138.0 | 1.36 | 98 | — | 2 |
| Comanche (CO) | 146 | 100.4 | 17.23 | .27 | — | — | — | — | 20 | 204.0 | 2.04 | 99 | — | 1 |
| Hayden (CO) | 126 | 95.5 | 20.24 | .41 | — | — | — | — | — | — | — | 100 | — | — |
| Pawnee (CO) | 195 | 86.4 | 14.48 | .37 | — | — | — | — | 3 | 290.0 | 3.00 | 100 | — | * |
| Valmont (CO) | 44 | 107.7 | 24.30 | .53 | — | — | — | — | 2 | 259.0 | 2.56 | 100 | — | * |
| Zuni (CO) | — | — | — | — | — | — | — | — | 13 | 295.0 | 2.91 | — | — | 100 |
| **Public Service Co of NH** | **114** | **157.0** | **41.49** | **1.47** | **219** | **125.4** | **8.11** | **1.32** | **—** | **—** | **—** | **68** | **32** | **—** |
| Merrimack (NH) | 64 | 161.3 | 42.83 | 1.81 | * | 280.1 | 16.21 | .27 | — | — | — | 100 | * | — |
| Newington Station (NH) | — | — | — | — | 219 | 125.4 | 8.11 | 1.32 | — | — | — | — | 100 | — |
| Schiller (NH) | 50 | 151.5 | 39.78 | 1.03 | — | — | — | — | — | — | — | 100 | — | — |
| **Public Service Co of NM** | **550** | **170.6** | **31.20** | **.83** | **7** | **341.0** | **19.48** | **1.00** | **41** | **300.9** | **3.05** | **99** | ***** | ***** |
| Reeves (NM) | — | — | — | — | — | — | — | — | 41 | 300.9 | 3.05 | — | — | 100 |
| San Juan (NM) | 550 | 170.6 | 31.20 | .83 | 7 | 341.0 | 19.48 | 1.00 | — | — | — | 100 | * | — |
| **Public Service Co of Oklahoma** | **345** | **116.0** | **19.98** | **.21** | **—** | **—** | **—** | **—** | **3,692** | **220.5** | **2.28** | **61** | **—** | **39** |
| Comanche (CS) (OK) | — | — | — | — | — | — | — | — | 1,136 | 228.2 | 2.39 | — | — | 100 |
| Northeastern (OK) | 345 | 116.0 | 19.98 | .21 | — | — | — | — | 892 | 217.2 | 2.21 | 87 | — | 13 |
| Riverside (OK) | — | — | — | — | — | — | — | — | 994 | 208.5 | 2.15 | — | — | 100 |
| Southwestern (OK) | — | — | — | — | — | — | — | — | 670 | 229.2 | 2.38 | — | — | 100 |
| **Public Service Electric&Gas Co** | **159** | **141.1** | **37.07** | **.83** | **—** | **—** | **—** | **—** | **179** | **238.4** | **2.44** | **96** | **—** | **4** |
| Bergen (NJ) | — | — | — | — | — | — | — | — | 105 | 238.4 | 2.42 | — | — | 100 |
| Burlington (NJ) | — | — | — | — | — | — | — | — | 38 | 238.4 | 2.50 | — | — | 100 |
| Hudson (NJ) | 92 | 141.8 | 35.94 | .89 | — | — | — | — | 21 | 238.4 | 2.39 | 99 | — | 1 |
| Mercer (NJ) | 67 | 140.3 | 38.62 | .74 | — | — | — | — | 2 | 238.4 | 2.52 | 100 | — | * |
| Sewaren (NJ) | — | — | — | — | — | — | — | — | 14 | 238.4 | 2.48 | — | — | 100 |
| **PSI Energy Inc** | **1,291** | **109.0** | **24.23** | **1.88** | **16** | **259.0** | **14.90** | **.30** | **—** | **—** | **—** | **100** | ***** | **—** |
| Cayuga (IN) | 282 | 115.3 | 25.45 | 1.40 | — | — | — | — | — | — | — | 100 | — | — |
| Edwardsport (IN) | 32 | 92.8 | 19.73 | 1.75 | — | — | — | — | — | — | — | 100 | — | — |
| Gallagher (IN) | 81 | 145.9 | 37.32 | 2.24 | 5 | 260.2 | 14.97 | .30 | — | — | — | 99 | 1 | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | | |
| **PSI Energy Inc** | | | | | | | | | | | | | | | |
| Gibson Station (IN) | 730 | 102.5 | 22.67 | 2.03 | 5 | 249.6 | 14.36 | 0.30 | — | — | — | | 100 | * | — |
| Noblesville (IN) | — | — | — | — | * | 263.3 | 15.15 | .30 | — | — | — | | — | 100 | — |
| Wabash River (IN) | 165 | 108.9 | 23.50 | 1.89 | 6 | 264.5 | 15.22 | .30 | — | — | — | | 99 | 1 | — |
| **Richmond City of** | **29** | **125.3** | **30.44** | **2.82** | — | — | — | — | — | — | — | | **100** | — | — |
| Whitewater (IN) | 29 | 125.3 | 30.44 | 2.82 | — | — | — | — | — | — | — | | 100 | — | — |
| **Rochester City of** | — | — | — | — | — | — | — | — | **3** | **254.1** | **2.61** | | — | — | **100** |
| Silver Lake (MN) | — | — | — | — | — | — | — | — | 3 | 254.1 | 2.61 | | — | — | 100 |
| **Rochester Gas & Electric Corp** | **33** | **148.6** | **38.99** | **2.06** | — | — | — | — | — | — | — | | **100** | — | — |
| Beebee Station 3 (NY) | 7 | 157.3 | 39.39 | 1.83 | — | — | — | — | — | — | — | | 100 | — | — |
| Russell Station 7 (NY) | 26 | 146.4 | 38.88 | 2.12 | — | — | — | — | — | — | — | | 100 | — | — |
| **Ruston City of** | — | — | — | — | — | — | — | — | **111** | **194.0** | **2.00** | | — | — | **100** |
| Steam Plant (LA) | — | — | — | — | — | — | — | — | 111 | 194.0 | 2.00 | | — | — | 100 |
| **S Mississippi Elec Pwr Assn** | **83** | **185.9** | **46.25** | **.80** | — | — | — | — | **593** | **183.8** | **1.90** | | **77** | — | **23** |
| Moselle (MS) | — | — | — | — | — | — | — | — | 593 | 183.8 | 1.90 | | — | — | 100 |
| R D Morrow (MS) | 83 | 185.9 | 46.25 | .80 | — | — | — | — | — | — | — | | 100 | — | — |
| **Sacramento Municipal Utility** | — | — | — | — | — | — | — | — | **2,124** | **207.2** | **2.07** | | — | — | **100** |
| Central Valley (CA) | — | — | — | — | — | — | — | — | 296 | 207.2 | 2.07 | | — | — | 100 |
| SCA Cogen Proj (CA) | — | — | — | — | — | — | — | — | 764 | 207.2 | 2.07 | | — | — | 100 |
| SPA Cogen Proj (CA) | — | — | — | — | — | — | — | — | 1,064 | 207.2 | 2.07 | | — | — | 100 |
| **Salt River Proj Ag I & P Dist** | **704** | **151.8** | **32.69** | **.51** | 9 | **353.3** | **20.61** | **.50** | **643** | **233.4** | **2.38** | | **96** | * | **4** |
| Agua Fria (AZ) | — | — | — | — | — | — | — | — | 330 | 239.4 | 2.43 | | — | — | 100 |
| Coronado (AZ) | 217 | 190.7 | 39.71 | .48 | 4 | 358.4 | 20.86 | .50 | — | — | — | | 99 | 1 | — |
| Navajo (AZ) | 486 | 135.2 | 29.55 | .53 | 5 | 349.0 | 20.40 | .50 | — | — | — | | 100 | * | — |
| Santan (AZ) | — | — | — | — | — | — | — | — | 313 | 227.1 | 2.32 | | — | — | 100 |
| **San Antonio City of** | **558** | **98.4** | **16.58** | **.38** | — | — | — | — | **2,374** | **187.7** | **1.90** | | **80** | — | **20** |
| Braunig (TX) | — | — | — | — | — | — | — | — | 155 | 187.7 | 1.91 | | — | — | 100 |
| JT Deely/Spruce (TX) | 558 | 98.4 | 16.58 | .38 | — | — | — | — | 2 | 187.7 | 1.90 | | 100 | — | * |
| Sommers (TX) | — | — | — | — | — | — | — | — | 2,128 | 187.7 | 1.90 | | — | — | 100 |
| Tuttle (TX) | — | — | — | — | — | — | — | — | 89 | 187.7 | 1.90 | | — | — | 100 |
| **San Diego Gas & Electric Co** | — | — | — | — | — | — | — | — | **3,653** | **248.3** | **2.52** | | — | — | **100** |
| Encina (CA) | — | — | — | — | — | — | — | — | 1,943 | 247.1 | 2.51 | | — | — | 100 |
| South Bay (CA) | — | — | — | — | — | — | — | — | 1,710 | 249.6 | 2.53 | | — | — | 100 |
| **San Miguel Electric Coop Inc** | **298** | **79.0** | **8.18** | **1.74** | — | — | — | — | — | — | — | | **100** | — | — |
| San Miquel (TX) | 298 | 79.0 | 8.18 | 1.74 | — | — | — | — | — | — | — | | 100 | — | — |
| **Savannah Electric & Power Co** | **46** | **142.1** | **34.27** | **.77** | * | **269.2** | **15.60** | **.50** | * | **210.2** | **2.15** | | **100** | * | * |
| Kraft (GA) | 35 | 142.6 | 35.43 | .76 | — | — | — | — | * | 210.2 | 2.15 | | 100 | — | * |
| McIntosh (GA) | 10 | 140.1 | 30.36 | .81 | * | 269.2 | 15.60 | .50 | — | — | — | | 99 | 1 | — |
| **Seminole Electric Coop Inc** | **253** | **166.9** | **40.79** | **3.00** | 4 | **268.5** | **15.54** | **.30** | — | — | — | | **100** | * | — |
| Seminole (FL) | 253 | 166.9 | 40.79 | 3.00 | 4 | 268.5 | 15.54 | .30 | — | — | — | | 100 | * | — |
| **Sierra Pacific Power Co** | **127** | **143.1** | **32.82** | **.42** | — | — | — | — | **1,446** | **268.7** | **2.81** | | **66** | — | **34** |
| Fort Churchill (NV) | — | — | — | — | — | — | — | — | 795 | 268.7 | 2.85 | | — | — | 100 |
| North Valmy (NV) | 127 | 143.1 | 32.82 | .42 | — | — | — | — | — | — | — | | 100 | — | — |
| Pinon Pine (NV) | — | — | — | — | — | — | — | — | 77 | 268.7 | 2.85 | | — | — | 100 |
| Tracy (NV) | — | — | — | — | — | — | — | — | 573 | 268.7 | 2.76 | | — | — | 100 |
| **Sikeston City of** | **77** | **101.2** | **17.66** | **.33** | — | — | — | — | — | — | — | | **100** | — | — |
| Sikeston (MO) | 77 | 101.2 | 17.66 | .33 | — | — | — | — | — | — | — | | 100 | — | — |
| **South Carolina Electric&Gas Co** | **553** | **153.2** | **38.87** | **1.21** | * | **274.4** | **15.91** | **.20** | **10** | **278.6** | **2.86** | | **100** | * | * |
| Canadys (SC) | 36 | 149.7 | 38.44 | 1.29 | — | — | — | — | — | — | — | | 100 | — | — |
| Cope (SC) | 67 | 151.9 | 37.86 | 1.13 | * | 263.2 | 15.26 | .20 | — | — | — | | 100 | * | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **South Carolina Electric&Gas Co** | | | | | | | | | | | | | | |
| Mcmeekin (SC) | 71 | 149.7 | 38.49 | 1.51 | — | — | — | — | — | — | — | 100 | — | — |
| Urguhart (SC) | 74 | 152.2 | 39.34 | 1.21 | * | 281.9 | 16.34 | 0.20 | 10 | 278.6 | 2.86 | 99 | * | 1 |
| Wateree (SC) | 203 | 151.0 | 37.81 | 1.38 | — | — | — | — | — | — | — | 100 | — | — |
| Williams (SC) | 102 | 162.7 | 41.72 | .70 | — | — | — | — | — | — | — | 100 | — | — |
| **South Carolina Pub Serv Auth** | **537** | **134.6** | **34.66** | **1.20** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Cross (SC) | 314 | 133.8 | 34.22 | 1.07 | — | — | — | — | — | — | — | 100 | — | — |
| Grainger (SC) | 17 | 151.8 | 38.92 | 1.75 | — | — | — | — | — | — | — | 100 | — | — |
| Jefferies (SC) | 52 | 132.0 | 34.84 | 1.68 | — | — | — | — | — | — | — | 100 | — | — |
| Winyah (SC) | 154 | 135.1 | 35.02 | 1.24 | — | — | — | — | — | — | — | 100 | — | — |
| **Southern California Edison Co** | **363** | **145.3** | **32.11** | **.51** | **—** | **—** | **—** | **—** | **19** | **332.5** | **3.44** | **100** | **—** | ***** |
| Mohave (NV) | 363 | 145.3 | 32.11 | .51 | — | — | — | — | 19 | 332.5 | 3.44 | 100 | — | * |
| **Southern Illinois Power Coop** | **56** | **106.3** | **24.55** | **3.43** | **1** | **266.2** | **15.17** | **—** | **—** | **—** | **—** | **100** | ***** | **—** |
| Marion (IL) | 56 | 106.3 | 24.55 | 3.43 | 1 | 266.2 | 15.17 | — | — | — | — | 100 | * | — |
| **Southern Indiana Gas & Elec Co** | **224** | **95.1** | **21.79** | **3.86** | **—** | **—** | **—** | **—** | **36** | **289.5** | **2.98** | **99** | **—** | **1** |
| A B Brown (IN) | 107 | 96.9 | 22.04 | 3.89 | — | — | — | — | 34 | 288.1 | 2.97 | 99 | — | 1 |
| Culley (IN) | 106 | 93.4 | 21.62 | 3.96 | — | — | — | — | 2 | 312.3 | 3.22 | 100 | — | * |
| Warrick (IN) | 11 | 94.9 | 20.94 | 2.59 | — | — | — | — | — | — | — | 100 | — | — |
| **Southwestern Electric Power Co** | **764** | **179.4** | **30.15** | **.39** | **—** | **—** | **—** | **—** | **1,521** | **185.4** | **1.90** | **89** | **—** | **11** |
| Arsenal Hill (LA) | — | — | — | — | — | — | — | — | 220 | 199.2 | 2.17 | — | — | 100 |
| Flint Creek (AR) | 179 | 159.6 | 27.39 | .27 | — | — | — | — | — | — | — | 100 | — | — |
| Knox Lee (TX) | — | — | — | — | — | — | — | — | 928 | 185.5 | 1.88 | — | — | 100 |
| Pirkey (TX) | 52 | 607.2 | 81.36 | 1.44 | — | — | — | — | 18 | 181.4 | 1.81 | 97 | — | 3 |
| Welsh Station (TX) | 533 | 153.2 | 26.08 | .33 | — | — | — | — | — | — | — | 100 | — | — |
| Wilkes (TX) | — | — | — | — | — | — | — | — | 355 | 176.3 | 1.79 | — | — | 100 |
| **Southwestern Public Service Co** | **538** | **237.3** | **42.47** | **.36** | **—** | **—** | **—** | **—** | **5,478** | **186.6** | **1.87** | **64** | **—** | **36** |
| Cunningham (NM) | — | — | — | — | — | — | — | — | 1,578 | 180.9 | 1.83 | — | — | 100 |
| Harrington (TX) | 342 | 222.6 | 40.68 | .38 | — | — | — | — | 15 | 216.0 | 2.15 | 100 | — | * |
| Jones (TX) | — | — | — | — | — | — | — | — | 1,465 | 187.2 | 1.88 | — | — | 100 |
| Maddox (NM) | — | — | — | — | — | — | — | — | 256 | 185.4 | 1.88 | — | — | 100 |
| Nichols (TX) | — | — | — | — | — | — | — | — | 1,377 | 190.2 | 1.88 | — | — | 100 |
| Plant X (TX) | — | — | — | — | — | — | — | — | 778 | 190.5 | 1.93 | — | — | 100 |
| Tolk (TX) | 196 | 264.5 | 45.59 | .33 | — | — | — | — | 10 | 216.0 | 2.24 | 100 | — | * |
| **Springfield City of** | **133** | **107.6** | **19.59** | **.26** | **—** | **—** | **—** | **—** | **22** | **194.0** | **1.97** | **99** | **—** | **1** |
| James River (MO) | 84 | 111.2 | 20.58 | .31 | — | — | — | — | 17 | 197.2 | 2.00 | 99 | — | 1 |
| Southwest (MO) | 49 | 101.0 | 17.90 | .17 | — | — | — | — | 5 | 182.9 | 1.86 | 99 | — | 1 |
| **Springfield City of** | **85** | **110.0** | **22.83** | **2.91** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **100** | **—** | **—** |
| Dallman (IL) | 84 | 110.0 | 22.83 | 2.91 | — | — | — | — | — | — | — | 100 | — | — |
| Lakeside (IL) | * | 107.6 | 22.36 | 3.09 | — | — | — | — | — | — | — | 100 | — | — |
| **St Joseph Light & Power Co** | **51** | **101.3** | **20.28** | **.29** | **4** | **295.1** | **17.30** | **.03** | **74** | **278.1** | **2.79** | **91** | **2** | **7** |
| Lakeroad (MO) | 51 | 101.3 | 20.28 | .29 | 4 | 295.1 | 17.30 | .03 | 74 | 278.1 | 2.79 | 91 | 2 | 7 |
| **Sunflower Electric Coop Inc** | **133** | **107.0** | **18.19** | **.31** | **—** | **—** | **—** | **—** | **9** | **198.0** | **1.94** | **100** | **—** | ***** |
| Holcomb (KS) | 133 | 107.0 | 18.19 | .31 | — | — | — | — | 9 | 198.0 | 1.94 | 100 | — | * |
| **Tallahassee City of** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **—** | **1,103** | **284.0** | **3.01** | **—** | **—** | **100** |
| Hopkins (FL) | — | — | — | — | — | — | — | — | 1,102 | 284.0 | 3.01 | — | — | 100 |
| Purdom (FL) | — | — | — | — | — | — | — | — | 1 | 284.0 | 3.01 | — | — | 100 |
| **Tampa Electric Co[6]** | **529** | **153.9** | **36.75** | **2.19** | **6** | **255.7** | **14.82** | **—** | **—** | **—** | **—** | **100** | ***** | **—** |
| Big Bend (FL) | — | — | — | — | 1 | 262.6 | 15.22 | — | — | — | — | — | 100 | — |
| Davant Transfer (LA) | 472 | 141.0 | 33.45 | 2.31 | — | — | — | — | — | — | — | 100 | — | — |
| Gannon (FL) | 57 | 253.6 | 64.02 | 1.21 | 5 | 252.1 | 14.61 | — | — | — | — | 98 | 2 | — |
| Hookers Point (FL) | — | — | — | — | * | 248.8 | 14.42 | — | — | — | — | — | 100 | — |
| Polk Station (FL) | — | — | — | — | * | 299.0 | 17.33 | — | — | — | — | — | 100 | — |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Taunton City of** | — | — | — | — | 10 | 202.8 | 12.83 | 1.00 | — | — | — | — | 100 | — |
| Cleary (MA) | — | — | — | — | 10 | 202.8 | 12.83 | 1.00 | — | — | — | — | 100 | — |
| **Tennessee Valley Authority[7]** | 3,480 | 111.4 | 25.50 | 1.98 | 24 | 258.4 | 15.18 | .50 | — | — | — | 100 | * | — |
| Allen (TN) | — | — | — | — | 2 | 248.4 | 14.59 | .50 | — | — | — | — | 100 | — |
| Bull Run (TN) | 209 | 118.4 | 29.19 | 1.58 | 4 | 233.9 | 13.74 | .50 | — | — | — | 100 | * | — |
| Colbert (AL) | 111 | 106.6 | 25.90 | 2.18 | — | — | — | — | — | — | — | 100 | — | — |
| Cora Transfer (TN) | 155 | 111.7 | 23.80 | .46 | — | — | — | — | — | — | — | 100 | — | — |
| Cumberland (TN) | 609 | 109.3 | 25.69 | 2.78 | 8 | 260.1 | 15.28 | .50 | — | — | — | 100 | * | — |
| GRT Terminal (TN) | 803 | 106.4 | 23.15 | 1.05 | — | — | — | — | — | — | — | 100 | — | — |
| Johnsonville (TN) | 74 | 110.2 | 27.16 | 1.76 | 3 | 249.1 | 14.64 | .50 | — | — | — | 99 | 1 | — |
| Kingston (TN) | 330 | 123.8 | 30.99 | 1.44 | 1 | 243.5 | 14.31 | .50 | — | — | — | 100 | * | — |
| Paradise (KY) | 537 | 94.3 | 19.91 | 4.35 | 1 | 343.3 | 20.17 | .50 | — | — | — | 100 | * | — |
| Sevier (TN) | 140 | 128.2 | 32.81 | 1.54 | — | — | — | — | — | — | — | 100 | — | — |
| Shawnee (KY) | 375 | 122.4 | 27.40 | .67 | 2 | 326.4 | 19.18 | .50 | — | — | — | 100 | * | — |
| Widows Creek (AL) | 138 | 121.5 | 29.50 | 2.17 | 3 | 250.8 | 14.74 | .50 | — | — | — | 99 | 1 | — |
| **Terrabonne Parrish Con** | — | — | — | — | — | — | — | — | 1 | 193.1 | 2.12 | — | — | 100 |
| Houma (LA) | — | — | — | — | — | — | — | — | 1 | 193.1 | 2.12 | — | — | 100 |
| **Texas Municipal Power Agency** | 126 | 119.8 | 20.19 | .32 | — | — | — | — | * | 198.0 | 2.01 | 100 | — | * |
| Gibbons Creek (TX) | 126 | 119.8 | 20.19 | .32 | — | — | — | — | * | 198.0 | 2.01 | 100 | — | * |
| **Texas Utilities Electric Co[8]** | 2,639 | 101.7 | 13.11 | .85 | 24 | 231.9 | 13.44 | — | 15,993 | 234.8 | 2.38 | 68 | * | 32 |
| Big Brown (TX) | 321 | 135.1 | 17.98 | .70 | — | — | — | — | 14 | 234.8 | 2.38 | 100 | — | * |
| Collin (TX) | — | — | — | — | — | — | — | — | 75 | 234.8 | 2.36 | — | — | 100 |
| Decordova (TX) | — | — | — | — | — | — | — | — | 510 | 234.8 | 2.27 | — | — | 100 |
| Eagle Mountain (TX) | — | — | — | — | — | — | — | — | 191 | 234.8 | 2.35 | — | — | 100 |
| Graham (TX) | — | — | — | — | — | — | — | — | 1,173 | 234.8 | 2.39 | — | — | 100 |
| Handley (TX) | — | — | — | — | — | — | — | — | 261 | 234.8 | 2.28 | — | — | 100 |
| Lake Creek (TX) | — | — | — | — | — | — | — | — | 431 | 234.8 | 2.42 | — | — | 100 |
| Lake Hubbard (TX) | — | — | — | — | — | — | — | — | 1,275 | 234.8 | 2.41 | — | — | 100 |
| Martin Lake (TX) | 1,120 | 78.3 | 10.10 | 1.10 | 15 | 238.9 | 13.85 | — | — | — | — | 99 | 1 | — |
| Monticello (TX) | 874 | 115.8 | 14.56 | .49 | 9 | 220.3 | 12.77 | — | — | — | — | 100 | * | — |
| Morgan Creek (TX) | — | — | — | — | — | — | — | — | 1,004 | 234.8 | 2.28 | — | — | 100 |
| Mountain Creek (TX) | — | — | — | — | — | — | — | — | 559 | 234.8 | 2.40 | — | — | 100 |
| North Lake (TX) | — | — | — | — | — | — | — | — | 824 | 234.8 | 2.38 | — | — | 100 |
| Parkdale (TX) | — | — | — | — | — | — | — | — | 3 | 234.8 | 1.38 | — | — | 100 |
| Permian Basin (TX) | — | — | — | — | — | — | — | — | 2,179 | 234.8 | 2.35 | — | — | 100 |
| Sandow No 4 (TX) | 324 | 110.8 | 14.80 | 1.10 | — | — | — | — | — | — | — | 100 | — | — |
| Stryker (TX) | — | — | — | — | — | — | — | — | 1,526 | 234.8 | 2.42 | — | — | 100 |
| Tradinghouse (TX) | — | — | — | — | — | — | — | — | 3,463 | 234.8 | 2.40 | — | — | 100 |
| Trinidad (TX) | — | — | — | — | — | — | — | — | 101 | 234.8 | 2.24 | — | — | 100 |
| Valley (TX) | — | — | — | — | — | — | — | — | 2,404 | 234.8 | 2.39 | — | — | 100 |
| **Texas-New Mexico Power Co** | 136 | 141.5 | 18.62 | .86 | — | — | — | — | 43 | 197.0 | 2.00 | 98 | — | 2 |
| TNP One (Tx) | 136 | 141.5 | 18.62 | .86 | — | — | — | — | 43 | 197.0 | 2.00 | 98 | — | 2 |
| **Toledo Edison Co** | 120 | 118.7 | 20.80 | .24 | — | — | — | — | — | — | — | 100 | — | — |
| Bay Shore (OH) | 120 | 118.7 | 20.80 | .24 | — | — | — | — | — | — | — | 100 | — | — |
| **Tri State Gen & Trans Assn, Inc** | 389 | 108.2 | 22.39 | .45 | — | — | — | — | 6 | 246.9 | 2.74 | 100 | — | * |
| Craig (CO) | 355 | 110.4 | 22.75 | .40 | — | — | — | — | 6 | 246.9 | 2.74 | 100 | — | * |
| Nucla (CO) | 33 | 85.7 | 18.58 | .88 | — | — | — | — | — | — | — | 100 | — | — |
| **Tucson Electric Power Co** | 346 | 142.5 | 26.22 | .80 | — | — | — | — | 25 | 277.6 | 2.84 | 100 | — | * |
| Irvington (AZ) | 10 | 298.8 | 67.13 | .52 | — | — | — | — | 25 | 277.6 | 2.84 | 90 | — | 10 |
| Springerville (AZ) | 336 | 136.7 | 24.98 | .81 | — | — | — | — | — | — | — | 100 | — | — |
| **Union Electric Co** | 1,353 | 99.6 | 17.69 | .32 | 3 | 233.8 | 13.45 | .29 | 96 | 185.7 | 1.91 | 100 | * | * |
| Labadie (MO) | 726 | 93.6 | 16.45 | .22 | 1 | 247.7 | 14.25 | .29 | — | — | — | 100 | * | — |
| Meramec (MO) | 144 | 122.0 | 22.74 | .42 | — | — | — | — | 83 | 186.1 | 1.91 | 97 | — | 3 |
| Rush Island (MO) | 271 | 93.2 | 15.69 | .33 | 2 | 226.8 | 13.05 | .29 | — | — | — | 100 | * | — |
| Sioux (MO) | 212 | 110.7 | 21.07 | .57 | — | — | — | — | — | — | — | 100 | — | — |
| Venice No.2 (IL) | — | — | — | — | — | — | — | — | 14 | 183.1 | 1.88 | — | — | 100 |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **United Illuminating Co** | — | — | — | — | 655 | 173.8 | 11.13 | 0.97 | — | — | — | — | 100 | — |
| Bridgeport Harbor (CT) | — | — | — | — | 376 | 173.8 | 11.13 | .98 | — | — | — | — | 100 | — |
| New Haven Hbr (CT) | — | — | — | — | 279 | 173.8 | 11.13 | .95 | — | — | — | — | 100 | — |
| **United Power Assn** | 85 | 70.3 | 9.57 | 0.68 | — | — | — | — | — | — | — | 100 | — | — |
| Stanton (ND) | 85 | 70.3 | 9.57 | .68 | — | — | — | — | — | — | — | 100 | — | — |
| **UtiliCorp United Inc** | 127 | 92.8 | 18.23 | .51 | — | — | — | — | — | — | — | 100 | — | — |
| Sibley (MO) | 127 | 92.8 | 18.23 | .51 | — | — | — | — | — | — | — | 100 | — | — |
| **Vero Beach City of** | — | — | — | — | — | — | — | — | 114 | 179.0 | 1.90 | — | — | 100 |
| Vero Beach (FL) | — | — | — | — | — | — | — | — | 114 | 179.0 | 1.90 | — | — | 100 |
| **Vineland City of** | 1 | 193.0 | 49.57 | .78 | 1 | 186.1 | 11.73 | .81 | — | — | — | 79 | 21 | — |
| H M Down (NJ) | 1 | 193.0 | 49.57 | .78 | 1 | 186.1 | 11.73 | .81 | — | — | — | 79 | 21 | — |
| **Virginia Electric & Power Co** | 1,015 | 127.6 | 31.95 | 1.33 | 3 | 299.6 | 17.62 | .20 | 2,013 | 298.6 | 3.12 | 92 | * | 8 |
| Bremo Bluff (VA) | 11 | 136.6 | 33.06 | 1.24 | — | — | — | — | — | — | — | 100 | — | — |
| Chesapeake Energy (VA) | 134 | 142.8 | 36.77 | .92 | — | — | — | — | — | — | — | 100 | — | — |
| Chesterfield (VA) | 235 | 140.1 | 35.44 | 1.14 | — | — | — | — | 1,951 | 301.6 | 3.16 | 74 | — | 26 |
| Clover (VA) | 180 | 121.6 | 30.64 | 1.03 | — | — | — | — | — | — | — | 100 | — | — |
| Mount Storm (WV) | 353 | 112.7 | 27.73 | 1.76 | 3 | 299.6 | 17.62 | .20 | — | — | — | 100 | * | — |
| Possum Point (VA) | 57 | 137.3 | 33.22 | 1.23 | — | — | — | — | — | — | — | 100 | — | — |
| Yorktown (VA) | 46 | 140.3 | 35.76 | 1.49 | — | — | — | — | 63 | 201.6 | 2.07 | 95 | — | 5 |
| **West Penn Power Co** | 358 | 113.2 | 29.04 | 2.38 | 1 | 408.0 | 24.16 | .30 | 10 | 396.8 | 3.97 | 100 | * | * |
| Armstrong (PA) | 63 | 106.5 | 26.65 | 1.79 | * | 431.9 | 25.58 | .30 | — | — | — | 100 | * | — |
| Hatfield (PA) | 243 | 109.5 | 28.46 | 2.33 | * | 336.0 | 19.90 | .30 | — | — | — | 100 | * | — |
| Mitchell (PA) | 52 | 139.7 | 34.68 | 3.36 | * | 485.7 | 28.76 | .30 | 10 | 396.8 | 3.97 | 99 | * | 1 |
| **West Texas Utilities Co** | 254 | 127.4 | 21.49 | .44 | — | — | — | — | 2,158 | 199.6 | 2.00 | 66 | — | 34 |
| Fort Phantom (TX) | — | — | — | — | — | — | — | — | 821 | 215.0 | 2.19 | — | — | 100 |
| Oak Creek (TX) | — | — | — | — | — | — | — | — | 237 | 216.2 | 2.19 | — | — | 100 |
| Oklaunion (TX) | 254 | 127.4 | 21.49 | .44 | — | — | — | — | — | — | — | 100 | — | — |
| Paint Creek (TX) | — | — | — | — | — | — | — | — | 115 | 192.3 | 1.99 | — | — | 100 |
| Rio Pecos (TX) | — | — | — | — | — | — | — | — | 358 | 176.4 | 1.75 | — | — | 100 |
| San Angelo (TX) | — | — | — | — | — | — | — | — | 626 | 186.8 | 1.82 | — | — | 100 |
| **Western Farmers Elec Coop Inc** | 164 | 105.7 | 18.51 | .28 | — | — | — | — | 1,231 | 188.4 | 1.95 | 69 | — | 31 |
| Anadarko (OK) | — | — | — | — | — | — | — | — | 978 | 188.4 | 1.94 | — | — | 100 |
| Hugo (OK) | 164 | 105.7 | 18.51 | .28 | — | — | — | — | — | — | — | 100 | — | — |
| Mooreland (OK) | — | — | — | — | — | — | — | — | 253 | 188.4 | 1.97 | — | — | 100 |
| **Western Massachusetts Elec Co** | — | — | — | — | 11 | 217.2 | 13.55 | .82 | — | — | — | — | 100 | — |
| West Springfield (MA) | — | — | — | — | 11 | 217.2 | 13.55 | .82 | — | — | — | — | 100 | — |
| **WestPlains Energy** | — | — | — | — | — | — | — | — | 630 | 173.1 | 1.76 | — | — | 100 |
| Cimarron River (KS) | — | — | — | — | — | — | — | — | 21 | 196.0 | 1.96 | — | — | 100 |
| Large (KS) | — | — | — | — | — | — | — | — | 610 | 172.4 | 1.75 | — | — | 100 |
| Mullergren (KS) | — | — | — | — | — | — | — | — | * | 166.0 | 1.66 | — | — | 100 |
| **Wisconsin Electric Power Co** | 704 | 85.7 | 15.06 | .36 | 1 | 310.7 | 18.21 | .29 | 53 | 246.0 | 2.53 | 100 | * | * |
| Oak Creek (WI) | 208 | 111.5 | 21.50 | .43 | — | — | — | — | 45 | 242.9 | 2.50 | 99 | — | 1 |
| Pleasant Prairie (WI) | 496 | 73.3 | 12.36 | .34 | — | — | — | — | 5 | 238.6 | 2.46 | 100 | — | * |
| Presque Isle (MI) | — | — | — | — | 1 | 310.7 | 18.21 | .29 | — | — | — | — | 100 | — |
| Valley (WI) | — | — | — | — | — | — | — | — | 4 | 291.2 | 2.98 | — | — | 100 |
| **Wisconsin Power & Light Co** | 535 | 103.5 | 17.67 | .34 | 2 | 277.1 | 16.29 | — | — | — | — | 100 | * | — |
| Columbia (WI) | 289 | 92.1 | 15.59 | .36 | 2 | 268.7 | 15.80 | — | — | — | — | 100 | * | — |
| Edgewater (WI) | 235 | 116.1 | 19.96 | .33 | — | — | — | — | — | — | — | 100 | — | — |
| Nelson Dewey (WI) | — | — | — | — | * | 364.3 | 21.42 | — | — | — | — | — | 100 | — |
| Rock River (WI) | 11 | 127.1 | 23.22 | .23 | * | 271.4 | 15.96 | — | — | — | — | 100 | * | — |
| **Wisconsin Public Service Corp** | 288 | 105.6 | 18.56 | .25 | — | — | — | — | 24 | 242.4 | 2.46 | 100 | — | * |
| Pulliam (WI) | 133 | 97.0 | 17.28 | .18 | — | — | — | — | 14 | 242.3 | 2.46 | 99 | — | 1 |
| Weston (WI) | 155 | 113.1 | 19.66 | .32 | — | — | — | — | 10 | 242.5 | 2.46 | 100 | — | * |

See notes and footnotes at end of table.

## Table 57. Receipts, Average Cost, and Quality of Fossil Fuels Delivered to U.S. Electric Utilities by Company and Plant, February 1999 (Continued)

| Utility (Holding Company) Plant (State) | Coal | | | | Petroleum[1] | | | | Gas | | | % of Total Btu | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Avg. Sulfur % | Receipts | Average Cost[3] | | Coal | Petroleum | Gas |
| | (1,000 tons) | (Cents per $10^6$ Btu) | ($ per short ton) | | (1,000 bbls) | (Cents per $10^6$ Btu) | $ per bbl | | (1,000 Mcf) | (Cents per $10^6$ Btu) | $ per Mcf | | | |
| **Wyandotte Municipal Serv Comm** | **5** | **149.9** | **37.50** | **2.37** | **—** | **—** | **—** | **—** | **121** | **255.0** | **2.55** | **49** | **—** | **51** |
| Wyandotte (MI) | 5 | 149.9 | 37.50 | 2.37 | — | — | — | — | 121 | 255.0 | 2.55 | 49 | — | 51 |
| **U.S. Total** | **73,938** | **124.7** | **25.46** | **1.05** | **10,417** | **[2] 171.5** | **10.93** | **1.17** | **137,473** | **[2] 221.5** | **2.26** | **88** | **4** | **8** |

1 The February 1999 petroleum coke receipts were 286,917 short tons and the cost was 62.7 cents per million Btu.
2 Monetary values are expressed in nominal terms.
3 The entry includes at least one delivery at a price of 1,000 cents per million Btu or greater. High price is frequently caused when fixed costs are averaged into a small quantity.
4 Most coal destined for the Barry plant is reported by the Alabama Power Company as it is received at the Gorgas Transshipping Facility.
5 The cost reported under IMT Transfer (Louisiana) is the weighted average cost of coal delivered to this facility. Florida Power Corporation incurs additional costs for transporting coal from the transfer facility to the Crystal River power plant. These additional costs are not included in data shown in this report. When aggregated at the State level, data for this transfer facility are shown as though the coal were delivered to Florida.
6 The cost reported under Davant Transfer (Louisiana) is the weighted average cost of coal delivered to this facility located in Louisiana. The Tampa Electric Company incurs additional costs for transporting this coal from Davant to its power plants which are located in Florida. These costs are not included in data shown in this report. When aggregated at the State level, data for this transfer facility are shown as though the coal were delivered to Florida.
7 Coal reported as delivered to the Cahokia, Cora, and GRT transfer facilities is later transferred to individual electric plants located in Alabama, Kentucky, and Tennessee. The cost of transportation from the these facilities to the electric plants is not included in the costs shown in this report. Coal delivered to Cahokia is later transferred primarily to the Colbert and Widows Creek plants in Alabama. Approximatley 90 percnt of the coal delivered to the Cora facility is transferred to the Allen plant. Most of the remaining coal is transferred to the Paradise plant. All coal delivered to the Cora facility is shown in this report as being delivered to Tennessee. Approximately 60 percent of the coal delivered to the GRT facility is later delivered to the Gallatin plant. Widdows Creek, Johnsonville, Paradise, and Cumberland each receive approximately 8 percent. Colbert and Shawnee each receive approximately 4 percent. All coal delivered to GRT is shown in this report as being delivered to Tennessee.
8 Data for Texas Utilities Electric Company include lignite delivered for the Aluminium Company of America (ALCOA) portion of Unit 4 of the Sandow Plant.
* Less than 0.05.
Notes: •Data for 1999 are preliminary. •Totals may not equal sum of components because of independent rounding. •Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. •Mcf=thousand cubic feet and bbl=barrel.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Appendix A

# General Information

## Articles

Feature articles on electric power energy-related subjects are frequently included in this publication. The following articles and special focus items have appeared in previous issues.

| | |
|---|---|
| June 1990 | Petroleum Fuel-Switching Capability in the Electric Utility Industry |
| April 1991 | U.S. Wholesale Electricity Transactions |
| April 1992 | Electric Utility Demand-Side Management |
| April 1992 | Nonutility Power Producers |
| August 1992 | Performance Optimization and Repowering of Generating Units |
| February 1993 | Improvement in Nuclear Power Plant Capacity Factors |
| October 1993 | Municipal Solid Waste in the U.S. Energy Supply |
| November 1993 | Electric Utility Demand-Side Management and Regulatory Effects |
| November 1994 | The Impact of Flow Control and Tax Reform on Ownership and Growth in the U.S. Waste-to-Energy Industry |
| July 1995 | Nonutility Electric Generation: Industrial Power Production |
| August 1995 | Steam Generator Degradation and Its Impact on Continued Operation of Pressurized Water Reactors in the United States |
| September 1995 | New Sources of Nuclear Fuel |
| November 1995 | Relicensing and Environmental Issues Affecting Hydropower |
| May 1996 | U.S. Electric Utility Demand-Side Management: Trends and Analysis |
| June 1996 | Upgrading Transmission Capacity for Wholesale Electric Power Trade |
| May 1998 | Reducing Nitrogen Oxide Emissions: 1996 Compliance with Title IV Limits |

For additional information or questions regarding availability of article reprints, please contact the National Energy Information Center at (202)586-8800 or by FAX at (202)586-0727.

## Electric Power Monthly Data Guide

| Data Item | Tables |
|---|---|
| New and Retired Electric Generating Units | 1 |
| Nonutility Electricity Sales for Resale | 2 |
| Nonutility Net Generation | 3 |
| Electric Utility Net Generation: | |
| Coal-Fired | 2, 4, 8, and 56 |
| Petroleum-Fired | 2, 4, 9, and 56 |
| Natural Gas-Fired | 2, 4, 10, and 56 |
| Hydroelectric-Powered | 2, 5, 11, and 56 |
| Nuclear-Powered | 2, 4, 12, and 56 |
| Other Sources | 2, 5, 13, and 56 |
| All Sources | 2, 3, 6, and 7 |
| Consumption of Fuels at Electric Utility Plants: | |
| Coal | 2, 14, 15, 18, and 56 |
| Petroleum | 2, 14, 16, 19, and 56 |
| Natural Gas | 2, 14, 17, 20, and 56 |
| Stocks of Fuels at Electric Utility Plants: | |
| Coal | 2, 21, 22, 24, and 56 |
| Petroleum | 2, 21, 23, 25, and 56 |
| Electric Utility Retail Sales: | |
| Residential Sector | 2, 44, 45, and 47 |
| Commercial Sector | 2, 44, 45, and 47 |
| Industrial Sector | 2, 44, 45, and 47 |
| Other Sector | 2, 44, 45, and 47 |
| Total Sector | 2, 44, 45, and 47 |
| Electric Utility Revenue: | |
| Residential Sector | 2, 48, 49, and 51 |
| Commercial Sector | 2, 48, 49, and 51 |
| Industrial Sector | 2, 48, 49, and 51 |
| Other Sector | 2, 48, 49, and 51 |
| Total Sector | 2, 48, 49, and 51 |
| Electric Utility Average Revenue: | 2, 52, 53, and 55 |
| Residential Sector | 2, 52, 53, and 55 |
| Commercial Sector | 2, 52, 53, and 55 |
| Industrial Sector | 2, 52, 53, and 55 |
| Other Sector | 2, 52, 53, and 55 |
| Total Sector | 2, 52, 53, and 55 |
| Electric Utility Receipts of Fuel: | |
| Coal | 2, 26, 27, 33, 34, 35, 36, and 57 |
| Petroleum | 2, 26, 29, 37, 38, 39, 40, and 57 |
| Natural Gas | 2, 26, 31, 41, 42, 43, and 57 |
| Electric Utility Fuel Costs: | |
| Coal | 2, 26, 28, 34, 35, 36, and 57 |
| Petroleum | 2, 26, 30, 38, 39, 40, and 57 |
| Natural Gas | 2, 26, 32, 42, 43, and 57 |

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12. Knaub, J.R., Jr., "Relative Standard Error for a Ratio of Variables at an Aggregate Level Under Model Sampling," in *Proceedings of the Section on Survey Research Methods*, American Statistical Association, 1994, pp. 310-312.

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# Appendix B

# Major Disturbances and Unusual Occurrences

This discussion was prepared for publication in the *Electric Power Monthly* by the Office of Energy Emergency Management (under the Office of Nonproliferation and National Security).

Electric power systems are subject to a variety of incidents that, to a smaller or greater degree, may adversely affect the delivery of electricity to consumers. Among these are natural phenomena (such as storms and earthquakes); failure of electric system components; accidental or purposeful activities inimical to continued safe operation of electric power systems; and, difficulties associated with the normal operation of large, extremely complex real-time systems.

Under current Federal regulations, some disturbances are reported to the Federal Government. The legal basis for the requirements and the specifications of information reported are detailed in Title 10, Part 205, Subpart W, of the *Code of Federal Regulations,* Sections 205.350—205.353, published in the *Federal Register* on October 31, 1986.

In general, the incidents to be reported are grouped into two categories: (1) mandatory in all cases; and (2) mandatory if the incident meets specified criteria, where the utility involved is permitted to exercise some judgment as to whether the criteria have been met. Underlying the formulation of the reporting criteria, requirements, and procedures was the need for the Federal Government to be aware of potentially dangerous situations, tempered by the desire to minimize burdens on the reporting utilities. Another consideration in the development of the rules was the benefit gained from knowledge of the causes and effects of undesired events that may have been caused by unforseen system defects or by purposeful adverse actions to system design and operation. The final rules reflect modification of the preliminary rules, as published in the *Federal Register,* based on comments from the electric power industry and the general public.

A report is mandatory when, for the purpose of maintaining the continuity of the bulk power supply system, a utility, due to any equipment failure/system operational action or event, (1) initiates a system voltage reduction of 3 percent or more, (2) disconnects circuits supplying over 100 megawatts of firm customer load, (3) issues an appeal to the public for a voluntary reduction in the use of electricity, or (4) has existing or anticipated fuel supply emergency situations requiring abnormal use of a particular fuel with the potential to reduce supply or stocks if needed to maintain reliable electric service. A report is also mandatory in regard to any actual or suspected act of sabotage or terrorism directed at the bulk power supply system.

In general, reports are to be made by telephone to the Emergency Operating Center, Department of Energy, in Washington, DC, as soon as practicable for instances of load shedding or loss of service, and, at the last, within 3 hours of the beginning of a service interruption. For other disturbances, the allowable reporting time ranges from 24 hours to days. Written reports may be required by the Director, Office of Energy Emergency Management, if the circumstances so indicate.

The DOE is concerned that the operation of the bulk power system in the United States shall be as trouble free as possible. To that end, information is collected, as discussed above, regarding major disturbances to the normal functioning of that system. Events, such as damage to some local distribution circuits by storms or other uncontrollable events, while annoying to the customers affected, do not greatly affect the supply of bulk power to the system as a whole. These events are more properly the concern of local and State authorities. By collecting data on major incidents, the Department is able to monitor the bulk power supply and provide a focus on those matters that may need investigation.

Suggestions regarding the reporting requirements, regulations, procedures, or any other phase of the Power System Emergency Reporting elements are welcomed. Comments can be addressed to the Office of Energy Emergency Operations (NN-63), Department of Energy, 1000 Independence Avenue, SW, Washington, DC 20585.

## Table B1. Major Disturbances and Unusual Occurrences, March 1999

| Date | Utility/Power Pool (NERC Council) | Time | Area | Type of Disturbance | Loss (megawatts) | Number of Customers Affected | Restoration *Time* |
|---|---|---|---|---|---|---|---|
| 1/02/99 | Duke Power Co. (SERC) | 4:00 p.m. | Charlotte, NC | Ice Storm | 900 | 240,000 | 6:00 p.m. Jan 6 |
| 1/14/99 | Potomac Electric Power Co. (MAAC) | 7:29 p.m. | Washington, DC | Ice Storm | 900 | 233,000 | 9:00 p.m. Jan 20 |
| 1/14/99 | Baltimore Gas & Electric (MAAC) | 8:00 p.m. | Suburban MD | Ice Storm | NA | 350,000 | 9:00 p.m. Jan 18 |
| 1/16/99 | Virginia Electric Power Co. (SERC) | 1.46 a.m. | Northern VA | Ice Storm | NA | 291,000 | 5:00 p.m. Jan 17 |
| 1/17/99 | Tennessee Valley Authority (SERC) | 7:00 p.m. | Western TN | Severe Storms | 50 | 50,000 | 4:00 p.m. Jan 20 |
| 1/17/99 | Potomac Electric Power Co. (MAAC) | 4:12 p.m. | Norbeck Substation | Equipment Failure | 90 | 70,000 | 5:46 a.m. Jan 18 |
| 1/29/99 | Southwestern Public Service Co. (ERCOT) | NA | Arillo, TX | Ice Storm | NA | 50,000 | Feb. 2 |
| 3/03/99 | Western Area Power Administration (WSCC) | 11:41a.m. | WSCC | Equipment Failure | 0 | 0 | 12:10 p.m. |

Source: Emergency Operations Center, Form EIA-417R, "Electric Power System Emergency Report."

# Appendix C

# Technical Notes

## Data Sources

The *Electric Power Monthly (EPM)* is prepared by the Electric Power Division, Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), Energy Information Administration (EIA), U.S. Department of Energy. Data published in the EPM are compiled from seven data sources. Those forms are: the Form EIA-759, "Monthly Power Plant Report," the Form EIA-900, "Monthly Nonutility Power Plant Report," the FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," the Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions," the Form EIA-861, "Annual Electric Utility Report," the Form EIA-860A, "Annual Electric Generator Report–Utility," and the Form EIA-860B, "Annual Electric Generator Report–Nonutility."

### *Form EIA-759*

The Form EIA-759 is a cutoff model sample of approximately 360 electric utilities drawn from the frame of all operators of electric utility plants (approximately 700 electric utilities) that generate electric power for public use. Data will be collected on an annual basis from the remaining operators of electric utility plants. The new monthly data collection is from all utilities with at least one plant with a nameplate capacity of 50 megawatts or more. (Note: includes all nuclear units). However, the few utilities that generate electricity using renewable fuel sources other than hydroelectric are all included in the sample. The Form EIA-759 is used to collect monthly data on net generation; consumption of coal, petroleum, and natural gas; and end-of-the-month stocks of coal and petroleum for each plant by fuel-type combination. Summary data from the Form EIA-759 are also contained in the *Electric Power Annual (EPA)*, *Monthly Energy Review (MER)*, and the *Annual Energy Review (AER)*. These reports present aggregate data estimates for electric utilities at the U.S., Census division, and North American Electric Reliability Council Region (NERC) levels.

**Instrument and Design History**. Prior to 1936, the Bureau of the Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry. In 1936, the Federal Power Commission (FPC) assumed all data collection and publication responsibilities for the electric power industry and implemented the FPC Form 4. The Federal Power Act, Sections 311 and 312, and FPC Order 141 define the legislative authority to collect power production data. The Form EIA-759 replaced the FPC Form 4 in January 1982. In January 1996, the Form EIA-759 was changed to collect data from a cutoff model sample of plants with a nameplate capacity of 25 megawatts or more. In January 1999, the Form EIA-759 was changed to collect data for a cutoff sample of plants with a nameplate capacity of 50 megawatts or more.

**Data Processing.** The Form EIA-759, along with a return envelope, is mailed to respondents approximately 4 working days before the end of the month. The completed forms are to be returned to the EIA by the 10th day after the end of the reporting month. After receipt, data from the completed forms are manually logged in and edited before being keypunched for automatic data processing. An edit program checks the data for errors not found during manual editing. The electric utilities are telephoned to obtain data in cases of missing reports and to verify data when questions arise during editing. After all forms are received from the respondents, the final automated edit is submitted. Following verification of the data, text and tables of aggregated data are produced for inclusion in the *EPM*. Following EIA approval of the *EPM*, the data are made available for public use, on a cost-recovery basis, through custom computer runs, data tapes, or in publications.

### *FERC Form 423*

The Federal Energy Regulatory Commission (FERC) Form 423 is a monthly record of delivered-fuel purchases, submitted by approximately 230 electric utilities for each electric generating plant with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. Summary data from the FERC Form 423 are also contained in the *EPA*, *MER*, and the *Cost and Quality of Fuels for Electric Utility Plants – Annual*. These reports present aggregated data on electric utilities at the U.S., Census division, and State levels.

**Instrument and Design History.** On July 7, 1972, the FPC issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, legally creating

the FPC Form 423. Originally, the form was used to collect data only on fossil-steam plants, but was amended in 1974 to include data on internal combustion and combustion turbines. The FERC Form 423 replaced the FPC Form 423 in January 1983. The FERC Form 423 eliminated peaking units, which were previously collected on the FPC Form 423. In addition, the generator nameplate capacity threshold was changed from 25 megawatts to 50 megawatts. This reduction in coverage eliminated approximately 50 utilities and 250 plants. All historical FPC Form 423 data in this publication were revised to reflect the new generator nameplate capacity threshold of 50 or more megawatts reported on the FERC Form 423. In January 1991, the collection of data on the FERC Form 423 was extended to include combined-cycle units. Historical data have not been revised to include these units. Starting with the January 1993 data, the FERC began to collect the data directly from the respondents.

**Data Processing.** The FERC processes the data through edits and each month provides the EIA with a diskette containing the data. The EIA reviews the data for accuracy. Beginning with May 1994 data, an additional quality check began in which coal data are compared with data prepared by Resource Data International, Inc., of Boulder, Colorado. Following verification of the data, text and tables of aggregated data are produced for inclusion in the *EPM*. After the *EPM* is cleared by the EIA, the data become available for public use, on a cost-recovery basis, through custom computer runs or in publications.

### *Form EIA-826*

The Form EIA-826 is a monthly collection of data from approximately 260 of the largest primarily investor-owned and publicly owned electric utilities. A model is then applied to estimate for the entire universe of U.S. electric utilities. The electric power sales data are used by the Federal Reserve Board in their economic analyses.

**Instrument and Design History.** The collection of electric power sales, revenue, and income data began in the early 1940's and was established as FPC Form 5 by FPC Order 141 in 1947. In 1980, the report was revised with only selected income items remaining and became the FERC Form 5. The Form EIA-826 replaced the FERC Form 5 in January 1983. In January 1987, the Form EIA-826 was changed to the "Monthly Electric Utility Sales and Revenue Report with State Distributions." It was formerly titled, "Electric Utility Company Monthly Statement." The Form EIA-826 was revised in January 1990, and some data elements were eliminated. In 1993, EIA for the first time used a model sample for the Form EIA-826. A stratified-random sample, employing auxiliary data, was used for each of the 4 previous years. (See previous issues of this publication, and (Knaub, 12) for details.) The current sample for the Form EIA-826, which was designed to obtain estimates of electricity sales and revenue per kilowatthour at the State level by end-use sector, was chosen to be in effect for the January 1993 data.

**Frame.** The frame for the Form EIA-826 was originally based on the 1989 submission of the Form EIA-861 (Section 1.4), which consisted of approximately 3,250 electric utilities selling retail and/or sales for resale. Note that for the Form EIA-826, the EIA is only interested in retail sales. Updates have been made to the frame to reflect mergers that affect data processing. Some electric utilities serve in more than one State. Thus, the State-service area is actually the sampling unit. For each State served by each utility, there is a utility State-part, or "State-service area." This approach allows for an explicit calculation of estimates for sales, revenue, and revenue per kilowatthour by end-use sector (residential, commercial, industrial and other) at State, Census division, and the U.S. level. Regressor data came from the Form EIA-861. (Note that estimates at the "State level" are for sales for the entire State, and similarly for "Census division" and "U.S." levels.)

The preponderance of electric power sales to ultimate consumers in each State are made by a few large utilities. Ranking of electric utilities by retail sales on a State-by-State basis revealed a consistent pattern of dominance by a few electric utilities in nearly all 50 States and the District of Columbia. These dominant electric utilities were selected as a model sample. These electric utilities constitute about 8 percent of the population of U.S. electric utilities, but provide three-quarters of the total U.S. retail electricity sales. The procedures used to derive electricity sales, revenue, revenue per kilowatthour, and associated coefficient of variation (CV) estimates are provided in the Form EIA-826 subsection of the Formulas Data Section. See (Knaub, 12) for a study of CV estimates for this survey.

**Data Processing.** The forms are mailed each year to the electric utilities with State-parts selected in the sample. The completed form is to be returned to the EIA by the last calendar day of the month following the reporting month. Nonrespondents are telephoned to obtain the data. Imputation, in model sampling, is an implicit part of the estimation. That is, data that are not available, either because it was not part of the sample or because the data are missing, are estimated using a model. The data are edited and entered into the computer where

additional checks are completed. After all forms have been received from the respondents, the final automated edit is submitted. Following verification, tables and text of the aggregated data are produced for inclusion in the EPM. After the *EPM* receives clearance from the EIA, the data are made available for public use through custom computer runs, data tapes, or in publications (*EPA*, *AER*) on a cost-recovery basis.

### Form EIA-900

The Form EIA-900, "Monthly Nonutility Power Plant Report," is a cutoff model sample drawn from the frame for the Form EIA-867, "Annual Nonutility Power Producer Report." Members of the Form EIA-867 frame with nameplate capacity greater than or equal to 50 megawatts constitute the sample for the Form EIA-900. The Form EIA-900 currently is used to collect monthly data on net generation; consumption of coal, petroleum, and natural gas; and end-of-the month stocks of coal and petroleum.

**Instrument and Design History.** The Form EIA-900 was implemented to collect monthly data, starting with January 1996. The reason for its inception was to fill, in part, a "data gap" that existed on a monthly basis when comparing utility sales to end users (from the Form EIA-826) with utility generation (from the Form EIA-759). This data gap occurred because utility sales data include electricity purchased from nonutilities and because of other factors such as transmission losses and imports/exports. In light of sampling and nonsampling error, a more complete description of events may be gleaned by including results based on the Form EIA-900.

**Data Processing.** The Form EIA-900 is mailed to all operating Form EIA-867 respondent facilities with more than 50 megawatts of total operating capacity. In 1996, there were approximately 380 respondents for the Form EIA-900. Data submission is allowed by Internet e-mail, postal mail, telephone or facsimile (FAX) transmission. In the near future, the EIA plans to allow touchtone data entry. At first submission, the number for the one datum element collected is compared to a previously submitted number, through the use of an interactive edit. Later, batch edits are applied. One edit is used to compare total sales, generation, line losses and imports/exports to determine if the results are reasonable. Another edit is applied on an individual, annual basis, to compare 12 month totals for the Form EIA-900 submissions to the corresponding Form EIA-867 submissions.

### Form EIA-861

The Form EIA-861 is a mandatory census of electric utilities in the United States. The survey is used to collect information on power production and sales data from approximately 3,250 electric utilities. The data collected are used to maintain and update the EIA's electric utility frame data base. This data base supports queries from the Executive Branch, Congress, other public agencies, and the general public. Summary data from the Form EIA-861 are also contained in the *Electric Sales and Revenue*; the *Electric Power Annual*; the *Financial Statistics of Selected Publicly Owned Electric Utilities*; the *Financial Statistics of Selected Investor-Owned Electric Utilities*; the *AER*; and, the *Annual Outlook for U.S. Electric Power*. These reports present aggregate totals for electric utilities on a national level, by State, and by ownership type.

**Instrument and Design History.** The Form EIA-861 was implemented in January 1985 to collect data as of year-end 1984. The Federal Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

**Data Processing.** The Form EIA-861 is mailed to the respondents in February of each year to collect data as of the end of the preceding calendar year. The data are manually edited before being entered into the interactive on-line system. Internal edit checks are performed to verify that current data total across and between schedules, and are comparable to data reported the previous year. Edit checks are also performed to compare data reported on the Form EIA-861 and similar data reported on the Forms EIA-826; EIA-412, "Annual Report of Public Electric Utilities;" and FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others." Respondents are telephoned to obtain clarification of reported data and to obtain missing data.

### Form EIA-860

The Form EIA-860A is a mandatory census of electric utilities in the United States that operate power plants or plan to operate a power plant within 10 years of the reporting year. The survey is used to collect data on electric utilities' existing power plants and their 10-year plans for constructing new plants, generating unit additions, modifications, and retirements in existing plants. Data on the survey are collected at the generating unit level. These data are then aggregated to provide totals by energy source (coal, petroleum, gas,

water, nuclear, other) and geographic area (State, NERC region, Federal region, Census division). Additionally, at the national level, data are aggregated to provide totals by prime mover. Data from the Form EIA-860 are also summarized in the *Inventory of Power Plants in the United States* and the *EPA*, and as input to publications (AER) and studies by other offices in the Department of Energy.

**Instrument and Design History.** The Form EIA-860A was implemented in January 1985 to collect data as of year-end 1984. The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

**Data Processing.** The Form EIA-860A is mailed to approximately 900 respondents in November or December to collect data as of January 1 of the reporting year, where the reporting year is the calendar year in which the report was filed. Effective with the 1996 reporting year, respondents have the option of filing Form EIA-860A directly with the EIA or through an agent, such as the respondent's regional electric reliability council. Data reported through the regional electric reliability councils are submitted to the EIA electronically from the North American Electric Reliability Council (NERC). Data for each respondent are preprinted from the applicable data base. Respondents are instructed to verify all preprinted data and to supply missing data. The data are manually edited before being keypunched for automatic data processing. Computer programs containing additional edit checks are run. Respondents are telephoned to obtain correction or clarification of reported data and to obtain missing data, as a result of the manual and automatic editing process.

### *Form EIA-860B*

The Form EIA-860B is a mandatory survey of all existing and planned nonutility electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts. In 1992, the reporting threshold of the Form EIA-860B was lowered to include all facilities with a combined nameplate capacity of 1 or more megawatts. Previously, data were collected every 3 years from facilities with a nameplate capacity between 1 and 5 megawatts. Planned generators are defined as a proposal by a company to install electric generating equipment at an existing or planned facility. The proposal is based on the owner having obtained (1) all environmental and regulatory approvals, (2) a contract for the electric energy, or (3) financial closure on the facility. The Form consists of Schedules I, "Identification and Certification;" Schedule II, "Facility Information"; Schedule III, "Standard Industrial Classification Code Designation"; Schedule IVA, "Facility Fuel Information"; Schedule IVB, "Facility Thermal and Generation Information"; Schedule V, "Facility Environmental Information"; and Schedule VI, "Electric Generator Information."

Submission of the Form EIA-860B is required from all facilities that have a combined facility nameplate capacity of 1 megawatt or more. Schedule V, "Facility Environmental Information" is only required of those facilities of 25 megawatts or more.

The form is used to collect data on the installed capacity, energy consumption, generation, and electric energy sales to electric utilities and other nonutilities by facility. Additionally, the form is used to collect data on the quality of fuels burned and the types of environmental equipment used by the respondent. These data are aggregated to provide geographic totals for selected States and at the Census division and national levels. Since the Form EIA-860B data are considered confidential, suppression of some data is necessary to protect the confidentiality of the individual respondent data. See "Confidentiality of the Data" in this section for further information.

**Instrument and Design History.** The Form EIA-860B was implemented in December 1989 to collect data as of year-end 1989. The Federal Energy Administration Act of 1984 (Public Law 93-275) defines the legislative authority to collect these data.

**Data Processing.** The Form EIA-860B is mailed to the respondents in January to collect data as of the end of the preceding calendar year. Static data for each respondent are preprinted from the previous year, and the respondents are instructed to verify all preprinted information and to supply the missing data. The completed forms are to be returned to the EIA by April 30. The response rate for all facilities for which addresses were confirmed was 100 percent. The data are manually edited before being keyed for automatic data processing. Computer programs containing additional edit checks are run. Respondents are telephoned to obtain corrections or clarifications of reported data and to obtain missing data as a result of the manual and automated editing.

## Formulas/Methodologies

The following formula is used to calculate percent differences.

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 $t_2$.

## Form EIA-826

The Form EIA-826 data are collected at the utility level by sector and State. When a utility has sales in more than one State, the State data that may be required are dependent upon the sample selection that was done for each State independently. Data from the Form EIA-826 are used to determine estimates by sector at the State, Census division, and national level for the entire corresponding State, Census division, or national category. Form EIA-861 data were used as the frame from which the sample was selected, and also as regressor data.

The sample consists of approximately 260 electric utilities. This includes a somewhat larger number of State-service areas for electric utilities. Estimation procedures include imputation to account for nonresponse. Nonsampling error must also be considered. The nonsampling error is not estimated directly, although attempts are made to minimize it.

State-level sales and revenue estimates are calculated. Also, a ratio estimation procedure is used for estimation of revenue per kilowatthour at the State level. These estimates are accumulated separately to produce the Census division and U.S. level estimates.

The coefficient of variation (CV) statistic, usually given as a percent, describes the magnitude of sampling error that might reasonably be incurred. The CV, sometimes referred to as the relative standard error, is the square root of the estimated variance, divided by the variable of interest. The variable of interest may be the ratio of two variables (for example, revenue per kilowatthour), or a single variable (for example, sales).

The sampling error may be less than the nonsampling error. Nonsampling errors may be attributed to many sources, including the response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding data obtained, and other errors of collection, response, or coverage. These nonsampling errors also occur in complete censuses. In a complete census, this problem may become unmanageable. One indicator of the magnitude of possible nonsampling error may be gleaned by examining the history of revisions to data for a survey (Table B2).

Coefficients of variation are indicators of error due to sampling. (CVs do not account for nonsampling errors, such as errors of misclassification or transposed digits. However, estimates of CVs, although not designed to measure nonsampling error, are affected by them). In fact, large CV estimates found in preliminary work with these data have often indicated nonsampling errors, which were then identified and corrected. Using the Central Limit Theorem, which applies to sums and means such as are applicable here, there is approximately a 68-percent chance that the true sampling error is less than the corresponding CV. Note that reported CVs are always estimates, themselves, and are usually, as here, reported as percents. As an example, suppose that a revenue-per-kilowatthour value is estimated to be 5.13 cents per kilowatthour with an estimated CV of 1.6 percent. This means that, ignoring any nonsampling error, there is approximately a 68-percent chance that the true average revenue per kilowatthour is within approximately 1.6 percent of 5.13 cents per kilowatthour (that is, between 5.05 and 5.21 cents per kilowatthour). There is approximately a 95-percent chance of a true sampling error being 2 CVs or less.

The basic approach used is shown in (Royall, 6) with additional discussion of variance estimation in (Royall and Cumberland, 7), (Royall and Cumberland, 8), and (Knaub, 5). From (Royall, 6), for sales or revenue for any sector at the State level, if we let $x$ represent an observation from the Form EIA-861, $y$ represents an observation from the Form EIA-826, and $\hat{y}$ represents an estimated value for data not collected, then

$$y_i = b x_i + x_i^{\gamma} e_{o_i},$$

$$\hat{y}_i = \hat{b} x_i,$$

$$\hat{b}(\gamma) = \left[ \sum_{k=1}^{n} x_k^{1-2\gamma} y_k \right] / \left[ \sum_{k=1}^{n} x_k^{2-2\gamma} \right]$$

Here, n is the Form EIA-826 sample size for that State, and b is the factor ('slope') relating x to y in the linear regression. $\gamma$ is taken to be ½ (see (Knaub, 5)), although more research (Knaub, 9) could refine this. For the Form EIA-826, $\gamma$ = ½ has certainly been shown to be adequate (see (Knaub, 5), page 878, Table 1). The variance formula for $V_d$ found in (Royall and Cumberland, 7 and 8) performs well for sales and for revenue. For revenue per kilowatthour, the model covariance comes from notes provided by Professor Poduri S.R.S. Rao (Rao, 10) of the University of Rochester and the Energy Information Administration. Aggregate level CV estimates for revenue per kilowatthour are calculated as supported by (Hansen,

Hurwitz and Madow, 11). Details are published in (Knaub, 12).

As a final adjustment based on our most complete data, use is made of final Form EIA-861 data, when available. The annual totals for Form EIA-826 data by State and end-use sector are compared to the corresponding Form EIA-861 values for sales and revenue. The ratio of these two values in each case is then used to adjust each corresponding monthly vale.

Additional information or clarification can be addressed to the Energy Information Administration as indicated in the "Contacts" section of this publication.

### Form EIA-900

The Form EIA-900 data are collected at the facility level, which is roughly the nonutility equivalent of plant level. Like the Form EIA-826, cutoff model sampling and estimation are employed, however, the estimation formula are modified by use of a second regressor. It was found that more variability occurred under the single regressor model than was generally found in the case of the Form EIA-826, but that through the use of nameplate capacity as a second regressor, results were greatly improved. Increasing variance as regressor values increase (heteroscedasticity), a phenomenon which caused us to use a value for gamma greater than zero in the case of the Form EIA-826, is at least as important a consideration here, and further study to increase efficiency may be performed. A paper, "Weighted Multiple Regression Estimation for Survey Model Sampling," has been accepted for publication in the Internet statistics journal, InterStat at http://interstat.stat.vt.edu/intersta.htm. This paper explains a great deal of the background and methodology involved in providing a satisfactory estimator in this case. It appears at the Web site given above, under May 1996 (Knaub, 13).

### Form EIA-759

Data for the Form EIA-759 are collected at the plant level. Estimates are then provided for geographic levels. Consumption of fuel(s) is converted from quantities (in short tons, barrels, or thousand cubic feet) to Btu at the plant level. End-of-month fuel stocks for a single generating plant may not equal beginning-of-the-month stocks plus receipts less consumption, for many reasons, including the fact that several plants may share the same fuel stock.

A cutoff model sampling and estimation are employed, using the same multiple regression model. Once again, as described under the corresponding subsection on the Form EIA-900, details of the estimation of totals and variances of totals are published on the Internet in a paper entitled "Weighted Multiple Regression Estimation for Survey Model Sampling (Knaub, 13)."

At the fuel and State level (i.e., lowest aggregate level), there are a number of cases where the minimal sample size of three is not met, when using a 25 MW cutoff. Imputation of historic values for the smallest plants is used to supplement actual values for the largest ones. However, at the NERC level, this is not necessary. Data element totals for each NERC region, by fuel type, are estimated using model sampling. These samples are composed solely of data reported for the plants actually in the sample. The national level estimate from this is then considered our best estimate, and all other estimates are apportioned accordingly.

As a final adjustment based on our most complete data, use is made of final Form EIA-759 annual census, when available. The annual census for Form EIA-759 data by State and energy source are compared to the corresponding monthly Form EIA-759 values. The ratio of these two values in each case is then used to adjust each corresponding monthly value.

### FERC Form 423

Data for the FERC Form 423 are collected at the plant level. These data are then used in the following formulas to produce aggregates and averages for each fuel type at the State, Census division, and U.S. level. For these formulas, receipts and average heat content are at the plant level. For each geographic region, the summation $\Sigma$ represents the sum of all plants in that geographic region. Additionally,

- For coal, units for receipts ($R$) are in tons, units for average heat content ($A$) are in Btu per pound, and the unit conversion ($U$) is 2,000 pounds per ton;
- For petroleum, units for receipts ($R$) are in barrels, units for average heat content ($A$) are in Btu per gallon, and the unit conversion ($U$) is 42 gallons per barrel;
- For gas, units for receipts ($R$) are in thousand cubic feet (Mcf), average heat content ($A$) are in Btu per cubic foot, and the unit conversion ($U$) is 1,000 cubic feet per Mcf.

$$\text{Total Btu} = \sum_i (R_i \times A_i \times U),$$

where $I$ denotes a plant; $R_i$ = receipts for plant $I$; $A_i$ = average heat content for receipts at plant $I$; and, $U$ = unit conversion;

$$\text{Weighted Average Btu} = \frac{\sum_i (R_i \times A_i)}{\sum_i R_i},$$

where $I$ denotes a plant; $R_i$ = receipts for plant $I$; and, $A_i$ = average heat content for receipts at plant $I$.

The weighted average cost in cents per million Btu is calculated using the following formula:

$$\text{Weighted Average Cost} = \frac{\sum_i (R_i \times A_i \times C_i)}{\sum_i (R_i \times A_i)},$$

where $I$ denotes a plant; $R_i$ = receipts for plant $I$; $A_i$ average heat content for receipts at plant $I$; and $C_i$ = cost in cents per million Btu for plant $I$.

The weighted average cost in dollars per unit is calculated using the following formula:

$$\text{Weighted Average Cost} = \frac{U \sum_i (R_i \times A_i \times C_i)}{10^8 \sum_i R_i},$$

where $I$ denotes a plant; $R_i$ = receipts for plant $I$; $A_i$ = average heat content for receipts at plant $I$; $U$ = unit conversion; and, $C_i$ = cost in cents per million Btu for plant $I$.

### *Form EIA-861*

Data for the Form EIA-861 are collected at the utility level from all electric utilities in the United States, its territories, and Puerto Rico. Form EIA-861 data in this publication are for the United States only. These data are then aggregated to provide geographic totals at the State, NERC region, Census division, and national level. Sources and disposition of data are also provided by utility class of ownership and retail consumer class of service. Average revenue (nominal dollars) per kilowatthour of electricity sold is calculated by dividing total annual retail revenue (nominal dollars) by the total annual retail sales of electricity.

Average revenue per kilowatthour is defined as the cost per unit of electricity sold and is calculated by dividing retail electric revenue by the corresponding sales of electricity. The average revenue per kilowatthour is calculated for all consumers and for each sector (residential, commercial, industrial, and other sales).

Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs to the electric utility for providing electrical service. The average revenue per kilowatthour reported in this publication by sector represents a weighted average of consumer revenue and sales within that sector and across sectors for all consumers.

The electric revenue used to derive the average revenue per kilowatthour is the operating revenue reported by the electric utility. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges.

Electric utility operating revenues cover, among other costs of service, State and Federal income taxes and taxes other than income taxes paid by the utility. The Federal component of these taxes are, for the most part, "payroll" taxes. State and local authorities tax the value of plant (property taxes), the amount of revenues (gross receipts taxes), purchases of materials and services (sales and use taxes), and a potentially long list of other items that vary extensively by taxing authority. Taxes deducted from employees' pay (such as Federal income taxes and employees' share of social security taxes) are not a part of the utility's "tax costs," but are paid to the taxing authorities in the name of the employees. These taxes are included in the utility's cost of service (for example, revenue requirements) and are included in the amounts recovered from consumers in rates and reported in operating revenues.

Electric utilities, like many other business enterprises, are required by various taxing authorities to collect and remit taxes assessed on their consumers. In this regard, the electric utility serves as an agent for the taxing authority. Taxes assessed on the consumer, such as a gross receipts tax or sales tax, are called "pass through" taxes. These taxes do not represent a cost to the utility and are not recorded in the operating revenues of the utility. However, taxing authorities differ as to whether a specific tax is assessed on the utility or the consumer—which, in turn, determines whether or not the tax is included in the operating revenue of the electric utility.

### Form EIA-860A

Data from the Form EIA-860A are submitted at the generating unit level and are then aggregated to provide total capacity by energy source and geographic area. In addition, at the national level, data are aggregated by prime mover.

Estimated values for net summer and net winter capability for electric generating units were developed by use of a regression formula. The formula is used to estimate values for existing units where data are missing and for projected units. It was found that a zero-intercept linear regression works very well for estimating capability based on nameplate capacity. The only parameter then is the slope ($\hat{b}$)that is used to relate capacity to capability as follows: $\hat{y} = \hat{b}x$, where $\hat{y}$ is the estimated capability, and $x$ is the known nameplate capacity. There will be a different value for $\hat{b}$ for different prime movers and for summer and winter capabilities and it will also depend upon the age of the generator. For more details see the *Inventory of Power Plants.*

### Form EIA-860B

Gross electricity generation data from the Form EIA-860B, reported by generator, are aggregated to provide totals by energy source and geographic area. Nonutility power producers report gross electricity generated on the Form EIA-860B, unlike electric utilities that report net generation on various EIA and FERC forms. Nonutilities generally do not measure and record electrical consumption used solely for the production of electricity. Nonutility generators and associated auxiliary equipment are often an integral part of a manufacturing or other industrial process and individual watthour meters are not generally installed on auxiliary equipment.

Estimated values for net generation from nonutility power producers were developed by EIA using gross generation, prime mover, fuels, and type of air pollution control data reported on the Form EIA-860B. The difference between gross and net generation is the electricity consumed by auxiliary equipment and environmental control devices such as pumps, fans, coal pulverizers, particulate collectors, and flue gas desulfurization (FGD) units. The difference between gross and net generation is sometimes called parasitic load. In smaller power plants rotating auxiliaries are almost always electric motors. In large power plants that produce steam, rotating auxiliaries can be powered by either steam turbines or electric motors and sometimes both because of cold startup requirements.

This methodology for estimating net generation from gross generation is based on determining typical energy consumption for auxiliary electrical equipment associated with electrical generators. For instance, wind turbines have none of the auxiliaries common to a coal-burning power plant such as a coal pulverizers, fans, and emission controls. On the other hand, windfarms do consume electricity since automatic, computer-based control systems are used to control blade pitch and speed thereby affecting generator electricity output.

Shown below are the conversion factors used to estimated net generation by nonutility generators. The factors are typical of a modern electric power plant but could vary significantly between individual plants. Net generation is calculated by multiplying the appropriate conversion factor by the reported gross electrical generation.

| Prime Mover Type | Gross-to-Net Generation Conversion Factor |
|---|---|
| Gas (Combustion) Turbine | .98 |
| Steam Turbine | .97[a] |
| Internal Combustion | .98 |
| Wind Turbine | .99 |
| Solar-Photovoltaic | .99 |
| Hydraulic Turbine | .99 |
| Fuel Cell | .99 |
| Other | .97 |

[a]Factor reduced by .01 if the facility has flue gas particulate collectors and another .03 if the facility has flue gas desulfurization (FGD) equipment. Facilities under 25 megawatts and burning coal in traditional boilers (e.g., not fluidized bed boilers) are assumed to have particulate and FGD equipment.

These conversion factors were estimated by the staff of the Office of Coal, Nuclear, Electric and Alternate Fuels, Energy Information Administration. The primary reference used in developing the conversion factors was *Steam, Its Generation and Use,* 40th Edition, Babcock & Wilcox, Barberton, Ohio.

### Average Heat Content

Heat content values (Table C1) collected on the FERC Form 423 were used to convert the consumption data from the Form EIA-759 into Btu. Respondents to FERC Form 423 represent a subset of all generating plants (steam plants with a capacity of 50 megawatts or larger), while Form EIA-759 respondents generally represent generating plants with a combined capacity of 25 or more megawatts. The results, therefore, may not be completely representative.

## Quality of Data

The CNEAF office 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. These standards are the measuring rod necessary for quality statistics. 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 data bases 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 data base 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.

Conceptual problems affecting the quality of data are discussed in the report, *An Assessment of the Quality of Selected EIA Data Series: Electric Power Data.* This report is published by the Energy Information Administration (Office of Statistical Standards). See item 2 in Appendix A.

### *Data Precision*

Monthly sample survey data have both sampling and nonsampling errors. Sampling errors may be expected since all data are not collected and, therefore, must be mathematically estimated. (Note that the annual series for a monthly sample is not subject to sampling error because it is a census). Nonsampling errors are the result of incorrect allocation of data (for example, transcriptions or misclassifications) and can be difficult to control and estimate. A study of coefficients of variance and data revisions was conducted so that the appropriate levels of precision, based on the accuracy and completeness of the data from which the estimates are derived, is provided in this report for average revenue per kilowatthour of electricity sold. It was judged that three significant digits are justified for average revenue per kilowatthour of electricity sold at the U.S. level except for monthly data prior to 1990 where two significant digits are more appropriate.

### *Data Imputation*

It may become necessary (as in March and April 1996 FERC Form 423 data) to impute for some data, even if a 100-percent census is normally collected without incident. In such cases, a modeling approach, similar to what is done for the Form EIA-826, can be implemented. The estimation methodologies for model sampling and model imputation are identical.

### *Data Editing System*

Data from the form surveys are edited on a monthly basis using automated systems. The edit includes 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. When all data have passed the edit process, the system builds monthly master files, which are used as input to the *EPM.*

### *Confidentiality of the Data*

In general, the data collected on the forms used for input to this report are not confidential. However, data from the Form EIA-900, "Monthly Sales for Resale," and from the Form EIA-867, "Annual Nonutility Power Producers," are considered confidential and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

### *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 (*).

### *Data Correction Procedure*

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. All monthly and quarterly survey data collected by this office are published as preliminary. These data are revised only after the completion of the 12-month cycle of the data. No revisions are made to the published data before this.

3. The magnitudes 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.

4. 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. Note that in this discussion, changes or revisions are referred to as "errors."

In accordance with policy statement number 3, the mean value (unweighted average) for the absolute values of the 12 monthly revisions of each item are provided at the U.S. level for the past 4 years (Table C2). For example, the mean of the 12 monthly absolute errors (absolute differences between preliminary and final monthly data) for coal-fired generation in 1995 was 49. That is, on average, the absolute value of the change made each month to coal-fired generation was 49 million kilowatthours.

The U.S. total net summer capability, updated monthly in the EPM (Table 1), is based solely on new electric generating units and retirements which come to the attention of the EIA during the year through telephone calls with electric utilities and on the Form EIA-759, "Monthly Power Plant Report," and may not include all activity for the month. Data on net summer capability, including new electric generating units, are collected annually on the Form EIA-860A, "Annual Electric Generator Report - Utility," and Form 860B "Annual Electric Generator Report - Nonutility."

## 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.

## Table C1. Average Heat Content of Fossil-Fuel Receipts, February 1999

| Census Division and State | Coal[1] (Btu per ton) | Petroleum[1] (Btu per barrel) | Gas[1] (Btu per thousand cubic feet) |
|---|---|---|---|
| **New England** | **26,393,814** | **6,383,679** | **1,024,324** |
| Connecticut | — | 6,378,498 | 1,013,000 |
| Maine | — | 6,354,470 | — |
| Massachusetts | 26,142,000 | 6,234,034 | 1,025,104 |
| New Hampshire | 26,428,568 | 6,469,694 | — |
| Rhode Island | — | — | — |
| Vermont | — | — | 1,012,000 |
| **Middle Atlantic** | **25,074,339** | **6,332,906** | **1,031,319** |
| New Jersey | 26,013,478 | 6,048,311 | 1,025,466 |
| New York | 26,013,356 | 6,308,360 | 1,031,427 |
| Pennsylvania | 24,788,634 | 6,373,237 | 1,033,686 |
| **East North Central** | **21,177,471** | **6,047,879** | **715,652** |
| Illinois | 19,232,478 | 5,769,655 | 1,022,443 |
| Indiana | 21,245,046 | 5,758,408 | 1,031,157 |
| Michigan | 21,265,304 | 6,191,684 | [a] 585,045 |
| Ohio | 23,778,994 | 5,790,791 | 1,024,580 |
| Wisconsin | 17,485,878 | 5,880,000 | 1,013,424 |
| **West North Central** | **16,651,786** | **6,071,604** | **1,004,379** |
| Iowa | 17,046,934 | 5,716,277 | 1,000,761 |
| Kansas | 17,249,798 | 6,902,700 | 1,003,299 |
| Minnesota | 17,739,896 | 5,754,000 | 1,004,598 |
| Missouri | 17,924,325 | 5,821,009 | 1,016,394 |
| Nebraska | 16,975,340 | 5,777,391 | 1,001,084 |
| North Dakota | 13,013,209 | 5,852,642 | 1,040,000 |
| South Dakota | 17,392,000 | — | — |
| **South Atlantic** | **24,608,333** | **6,374,986** | **1,057,065** |
| Delaware | 26,207,736 | 5,817,000 | 1,032,929 |
| District of Columbia | — | — | — |
| Florida | 24,647,151 | 6,381,118 | 1,061,041 |
| Georgia | 23,317,656 | 5,816,144 | 1,024,000 |
| Maryland | 25,905,435 | 6,388,647 | 1,040,902 |
| North Carolina | 24,956,626 | 5,813,619 | 1,048,000 |
| South Carolina | 25,560,178 | 5,796,000 | 1,028,000 |
| Virginia | 25,248,703 | 5,819,339 | 1,046,438 |
| West Virginia | 24,599,595 | 5,870,812 | 1,000,000 |
| **East South Central** | **22,893,184** | **6,565,993** | **1,033,589** |
| Alabama | 22,486,092 | 5,873,728 | 1,029,492 |
| Kentucky | 23,116,752 | 5,866,692 | 1,025,000 |
| Mississippi | 21,844,088 | 6,613,724 | 1,033,881 |
| Tennessee | 23,238,802 | 5,875,800 | — |
| **West South Central** | **15,647,961** | **6,314,969** | **1,025,763** |
| Arkansas | 17,352,688 | 5,928,887 | 1,012,550 |
| Louisiana | 16,115,593 | 6,437,214 | 1,043,706 |
| Oklahoma | 17,205,036 | — | 1,034,868 |
| Texas | 14,930,276 | 5,796,000 | 1,019,407 |
| **Mountain** | **19,410,959** | **5,806,859** | **1,028,649** |
| Arizona | 20,260,852 | 5,834,544 | 1,017,680 |
| Colorado | 19,989,612 | — | 1,048,429 |
| Idaho | — | — | — |
| Montana | 16,953,265 | 5,922,000 | 1,053,443 |
| Nevada | 22,577,756 | 5,842,620 | 1,040,784 |
| New Mexico | 17,939,778 | 5,712,000 | 1,009,316 |
| Utah | 22,650,144 | 5,796,000 | 1,067,000 |
| Wyoming | 17,550,290 | 5,880,000 | 1,044,000 |
| **Pacific Contiguous** | **17,303,242** | — | **1,019,099** |
| California | — | — | 1,019,623 |
| Oregon | 18,530,968 | — | 1,011,000 |
| Washington | 16,538,922 | — | — |
| **Pacific Noncontiguous** | — | **6,294,703** | **1,000,628** |
| Alaska | — | — | 1,000,628 |
| Hawaii | — | 6,294,703 | — |
| **U.S. Average** | **20,419,203** | **6,371,450** | **1,019,388** |

[1] Data represents weighted values.

[a] Consists mostly of blast furnace gas which has a heat content of 74.0 Btu per thousand cubic feet.

Note: Data for 1998 are preliminary.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

## Table C2. Comparison of Preliminary Versus Final Published Data at the U.S. Level, 1994 Through 1998

| Item | Mean Absolute Value of Change | | | | |
|---|---|---|---|---|---|
| | 1994 | 1995 | 1996 | 1997 | 1998 |
| **Nonutility** | | | | | |
| **Sales for Resale (million kilowatthours)** | NA | NA | 546 | 335 | NA |
| **Utility** | | | | | |
| **Generation (million kilowatthours)** | | | | | |
| Coal | 34 | 49 | 162 | 201 | 201 |
| Petroleum | 25 | 6 | 64 | 53 | 39 |
| Gas | 29 | 38 | 84 | 168 | 102 |
| Hydroelectric | 6 | 6 | 298 | 325 | 322 |
| Nuclear | 96 | 0 | 4 | 65 | 0 |
| Other[1] | 1 | 0 | 0 | 0 | 0 |
| Total | 113 | 11 | 462 | 285 | 504 |
| **Consumption** | | | | | |
| Coal (thousand short tons) | 10 | 27 | 105 | 169 | 114 |
| Petroleum (thousand barrels) | 13 | 1 | 94 | 43 | 76 |
| Gas (million cubic feet) | 470 | 300 | 899 | 1,243 | 1,084 |
| **Stocks[2]** | | | | | |
| Coal (thousand short tons) | 124 | 310 | 233 | 501 | 229 |
| Petroleum (thousand barrels) | 81 | 239 | 201 | 130 | 98 |
| **Retail Sales (million kilowatthours)** | | | | | |
| Residential | 115 | 79 | 345 | 350 | 626 |
| Commercial | 397 | 780 | 476 | 1,265 | 175 |
| Industrial | 806 | 141 | 1,129 | 257 | 771 |
| Other[3] | 24 | 167 | 267 | 363 | 33 |
| Total | 602 | 694 | 1,153 | 1,724 | 1,466 |
| **Revenue (million dollars)** | | | | | |
| Residential | 14 | 17 | 2 | 3 | 42 |
| Commercial | 31 | 51 | 29 | 60 | 17 |
| Industrial | 51 | 23 | 46 | 32 | 30 |
| Other[3] | 4 | 5 | 1 | 31 | 2 |
| Total | 49 | 22 | 46 | 62 | 79 |
| **Average Revenue per Kilowatthour (cents)[4]** | | | | | |
| Residential | .01 | .01 | .03 | .03 | .02 |
| Commercial | .01 | .01 | .01 | .05 | .01 |
| Industrial | .02 | .03 | .01 | .02 | .01 |
| Other[3] | .04 | .20 | .22 | .07 | .02 |
| Total | .01 | .01 | .01 | .02 | .01 |
| **Receipts** | | | | | |
| Coal (thousand short tons) | 27 | 34 | 61 | 71 | 84 |
| Petroleum (thousand barrels) | 28 | 2 | 77 | 28 | 20 |
| Gas (million cubic feet) | 211 | 227 | 566 | 122 | 365 |
| **Cost (cents per million Btu)[4]** | | | | | |
| Coal | .08 | .10 | .06 | .16 | .23 |
| Petroleum | .01 | .01 | .01 | * | * |
| Gas | .04 | .15 | .87 | .68 | .35 |

1 Includes geothermal, wood, waste, wind, and solar.
2 Stocks are end of month values.
3 Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.
4 Data represents weighted values.
* = For detailed data, the absolute value is less than 0.5; for percentage calculations, the absolute value is less than 0.05 percent.
NA = Not available.

Notes: •Change refers to the difference between estimates or preliminary monthly data published in the *Electric Power Monthly* (EPM) and the final monthly data published in the EPM. •Mean absolute value of change is the unweighted average of the absolute changes.

Sources: •Energy Information Administration: Form EIA-900, "Nonutility Sales for Resale Report"; Form EIA-759, "Monthly Power Plant Report"; Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions"; and Form EIA-861, "Annual Electric Utility Report."

## Table C3. Unit-of-Measure Equivalents for Electricity

| 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.

## Table C4. Comparison of Sample Versus Census Published Data at the U.S. Level, 1996 and 1997

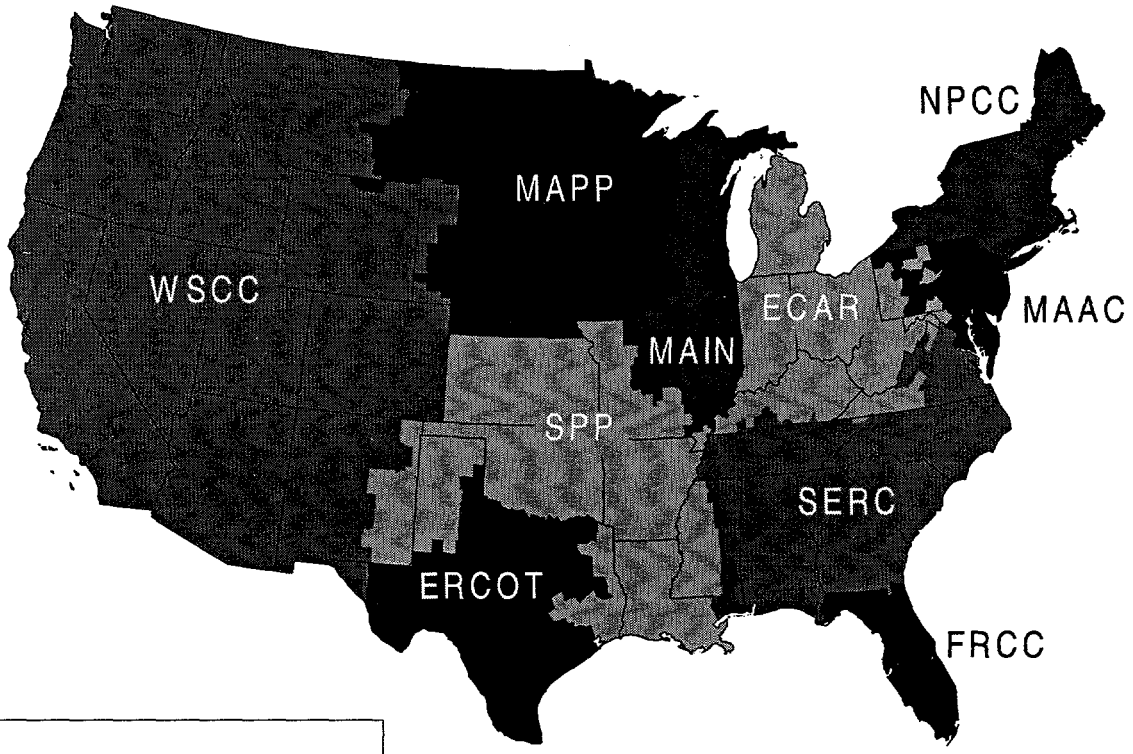
| Item | 1996 | | | 1997 | | |
|---|---|---|---|---|---|---|
| | Sample | Census | Difference (Percent) | Sample | Census | Difference (Percent) |
| **Nonutility** | | | | | | |
| Sales for Resale (million kilowatthours) | 219,549 | 224,646 | * | 222,367 | NA | NA |
| **Utility** | | | | | | |
| **Generation (million kilowatthours)** | | | | | | |
| Coal | 1,735,943 | 1,737,453 | 0.1 | 1,788,733 | 1,787,806 | −0.1 |
| Petroleum | 66,261 | 65,695 | −.9 | 75,570 | 74,372 | −1.6 |
| Gas | 263,262 | 262,730 | −.2 | 283,603 | 283,625 | * |
| Other[1] | 1,012,475 | 1,011,564 | −.1 | 977,618 | 976,720 | −.1 |
| **Total** | **3,077,940** | **3,077,442** | * | **3,125,524** | **3,122,523** | **−.10** |
| **Consumption** | | | | | | |
| Coal (1,000 short tons) | 873,681 | 874,681 | .1 | 898,460 | 900,361 | .2 |
| Petroleum (1,000 barrels) | 114,788 | 113,274 | −1.3 | 128,254 | 125,146 | −2.5 |
| Gas (1,000 Mcf) | 2,736,552 | 2,732,107 | −.2 | 2,962,375 | 2,968,453 | .2 |
| **Stocks[2]** | | | | | | |
| Coal (1,000 short tons) | 114,623 | 114,623 | * | 98,261 | 98,826 | .6 |
| Petroleum (1,000 barrels) | 47,507 | 47,690 | .4 | 48,570 | 48,792 | .5 |
| **Retail Sales (million kilowatthours)** | | | | | | |
| Residential | 1,078,355 | 1,082,491 | .4 | 1,071,563 | NA | NA |
| Commercial | 888,066 | 887,425 | −.1 | 913,265 | NA | NA |
| Industrial | 1,016,807 | 1,030,356 | 1.3 | 1,035,700 | NA | NA |
| Other[3] | 100,741 | 97,539 | −3.3 | 98,544 | NA | NA |
| **All Sectors** | **3,083,970** | **3,097,810** | **.40** | **3,119,072** | **NA** | **NA** |
| **Revenue (million dollars)** | | | | | | |
| Residential | 90,510 | 90,501 | * | 90,653 | NA | NA |
| Commercial | 67,822 | 67,827 | * | 69,767 | NA | NA |
| Industrial | 46,833 | 47,385 | 1.2 | 47,159 | NA | NA |
| Other[3] | 6,735 | 6,741 | .1 | 6,737 | NA | NA |
| **All Sectors** | **211,900** | **212,455** | **.30** | **214,317** | **NA** | **NA** |
| **Average Revenue per Kilowatthour (cents)[4]** | | | | | | |
| Residential | 8.39 | 8.36 | −.4 | 8.46 | NA | NA |
| Commercial | 7.64 | 7.64 | .1 | 7.64 | NA | NA |
| Industrial | 4.61 | 4.60 | −.2 | 4.55 | NA | NA |
| Other[3] | 6.69 | 6.91 | 3.3 | 6.84 | NA | NA |
| **All Sectors** | **6.87** | **6.86** | **−.20** | **6.87** | **NA** | **NA** |

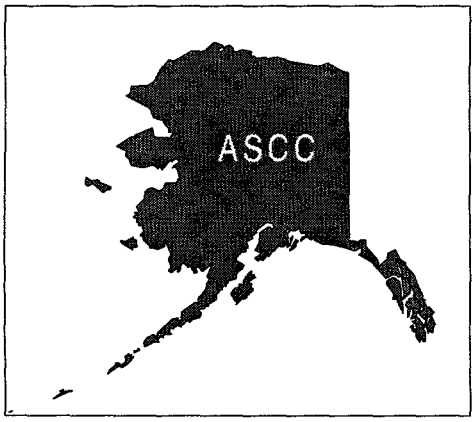
1 Includes geothermal, wood, waste, wind, and solar.
2 Stocks are end-of-month values.
3 Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.
4 Data represent weighted values.
* = For detailed data, the absolute value is less than 0.5; for percentage calculations, the absolute value is less than 0.05 percent.
NA = Not available.

Notes: •The average revenue per kilowatthour is calculated by dividing revenue by sales. •Totals may not equal sum of components because of independent rounding. •Percent difference is calculated before rounding.

Sources: Energy Information Administration, Form EIA-900, "Nonutility Sales for Resale Report;" Form EIA-867, "Annual Nonutility Power Producer Report;" Form EIA-759, "Monthly Power Plant Report;" Form EIA-861, "Annual Electric Utility Report;" Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions."

**Figure C1. North American Electric Reliability Council Regions for the Contiguous United States and Alaska**




NERC Regional Councils

ECAR - East Central Area Reliability Coordination Agreement
ERCOT - Electric Reliability Council of Texas
FRCC - Florida Reliability Coordinating Council
MAAC - Mid-Atlantic Area Council
MAIN - Mid-America Interconnected Network
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

Note: The Alaska Systems Coordinating Council (ASCC) is an affiliate NERC member.
Source: Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels.

## Table C5. Estimated Coefficients of Variation for Electric Utility Net Generation by State, March 1999

(Percent)

| State | Coal | Petroleum | Gas | Hydroelectric | Nuclear | Other[1] |
|---|---|---|---|---|---|---|
| Alabama | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | — |
| Alaska | .0 | 7.0 | .2 | 18.3 | — | — |
| Arizona | .0 | .0 | .0 | .0 | .0 | — |
| Arkansas | .0 | .0 | 1.2 | .3 | .0 | — |
| California | — | 2.3 | 2.4 | .1 | .0 | 0.0 |
| Colorado | .1 | 9.1 | .2 | .1 | — | .0 |
| Connecticut | .0 | .3 | .0 | .9 | .0 | .0 |
| Delaware | .0 | .0 | .0 | — | — | — |
| District of Columbia | — | .0 | — | — | — | — |
| Florida | .0 | .0 | .0 | .0 | .0 | — |
| Georgia | .0 | .0 | .6 | .4 | .0 | — |
| Hawaii | — | 1.7 | — | .0 | — | — |
| Idaho | — | .0 | — | .1 | — | — |
| Illinois | .0 | 1.0 | .6 | .0 | .0 | .0 |
| Indiana | .0 | .0 | .4 | .0 | — | — |
| Iowa | .1 | 9.5 | 4.4 | .2 | .0 | .0 |
| Kansas | .0 | 1.2 | 4.3 | — | .0 | — |
| Kentucky | 1.0 | 2.7 | 3.8 | 1.5 | — | — |
| Louisiana | .0 | .0 | .1 | — | .0 | — |
| Maine | — | .0 | — | 1.8 | — | .0 |
| Maryland | .0 | .6 | .3 | .0 | .0 | — |
| Massachusetts | .0 | 258.1 | 8.2 | 5.4 | .0 | — |
| Michigan | .0 | .5 | .8 | 3.3 | .0 | — |
| Minnesota | .4 | .1 | 11.2 | 2.7 | .0 | .0 |
| Mississippi | 1.2 | .6 | .9 | — | .0 | — |
| Missouri | .0 | .9 | 1.2 | 2.0 | .0 | .0 |
| Montana | .0 | .0 | .0 | .0 | — | — |
| Nebraska | .0 | 2.3 | 4.7 | .0 | .0 | .0 |
| Nevada | .0 | .0 | .0 | .0 | — | — |
| New Hampshire | .0 | .0 | .0 | .0 | .0 | — |
| New Jersey | .0 | .0 | .0 | .0 | .0 | — |
| New Mexico | .4 | .0 | .6 | .0 | — | — |
| New York | .0 | .1 | .1 | .0 | .0 | .0 |
| North Carolina | .0 | .0 | .0 | .0 | .0 | — |
| North Dakota | .0 | .0 | .0 | .0 | — | — |
| Ohio | .0 | .4 | 1.4 | .0 | .0 | — |
| Oklahoma | .0 | 1.0 | .2 | .0 | — | — |
| Oregon | .0 | .0 | .0 | .0 | — | .0 |
| Pennsylvania | .0 | .0 | .0 | .2 | .0 | — |
| Rhode Island | — | .0 | — | — | — | — |
| South Carolina | .0 | .0 | .0 | .6 | .0 | — |
| South Dakota | .0 | .0 | .0 | .0 | — | — |
| Tennessee | .0 | .0 | .0 | .0 | .0 | — |
| Texas | .0 | .1 | .0 | 1.4 | .0 | .0 |
| Utah | .0 | 1.5 | 24.4 | 2.0 | — | .0 |
| Vermont | — | 8.4 | .0 | 6.4 | .0 | .0 |
| Virginia | .0 | .0 | .0 | 9.3 | .0 | .0 |
| Washington | .0 | .0 | .0 | .0 | .0 | .0 |
| West Virginia | .0 | .0 | .0 | .0 | — | — |
| Wisconsin | .0 | .2 | .7 | 2.2 | .0 | .0 |
| Wyoming | .0 | .0 | .0 | .2 | — | — |

[1] Includes geothermal, wood, wind, waste, and solar.

Notes: •For an explanation of coefficients of variation, see the technical notes. •Estimates for 1999 are preliminary.

Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

## Table C6. Estimated Coefficients of Variation for Electric Utility Fuel Consumption and Stocks by State, March 1999

(Percent)

| State | Consumption | | | Stocks | |
|---|---|---|---|---|---|
| | Coal | Petroleum | Gas | Coal | Petroleum |
| Alabama | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Alaska | .0 | 6.4 | .4 | .0 | 18.5 |
| Arizona | .0 | .0 | .0 | .0 | .0 |
| Arkansas | .0 | .0 | 1.7 | .0 | .0 |
| California | — | 2.4 | 1.9 | — | 1.0 |
| Colorado | .1 | 1.5 | .3 | .1 | .8 |
| Connecticut | .0 | .3 | .0 | .0 | .2 |
| Delaware | .0 | .0 | .0 | .0 | .0 |
| District of Columbia | — | .0 | — | — | .0 |
| Florida | .0 | .0 | .0 | .0 | .0 |
| Georgia | .0 | .0 | .4 | .0 | .0 |
| Hawaii | — | 1.8 | — | — | 1.8 |
| Idaho | — | .0 | — | — | .0 |
| Illinois | .0 | 1.6 | .3 | .0 | .7 |
| Indiana | .0 | .1 | .3 | .0 | .2 |
| Iowa | .1 | 2.8 | 5.4 | .1 | 3.8 |
| Kansas | .0 | 2.7 | 4.7 | .0 | 4.9 |
| Kentucky | 1.0 | 2.4 | 2.8 | 1.5 | 2.7 |
| Louisiana | .0 | .0 | .1 | .0 | .0 |
| Maine | — | .1 | — | — | .0 |
| Maryland | .0 | .2 | .4 | .0 | .2 |
| Massachusetts | .0 | 1553.2 | 7.5 | .0 | 842.0 |
| Michigan | .0 | .7 | .6 | .1 | .1 |
| Minnesota | .4 | 3.1 | 10.6 | .5 | 1.3 |
| Mississippi | .7 | .6 | .5 | .5 | .3 |
| Missouri | .0 | .9 | 1.4 | .0 | .6 |
| Montana | .0 | .0 | .0 | .0 | .0 |
| Nebraska | .0 | 2.4 | 5.0 | .0 | 3.7 |
| Nevada | .0 | .0 | .0 | .0 | .0 |
| New Hampshire | .0 | .0 | .0 | .0 | .0 |
| New Jersey | .0 | .0 | .0 | .0 | .0 |
| New Mexico | .4 | .0 | .7 | .3 | .0 |
| New York | .0 | .1 | .1 | .0 | .0 |
| North Carolina | .0 | .0 | .0 | .0 | .0 |
| North Dakota | .0 | .0 | .0 | .0 | .0 |
| Ohio | .0 | .4 | 1.4 | .0 | .1 |
| Oklahoma | .0 | 1.0 | .1 | .0 | .3 |
| Oregon | .0 | .0 | .0 | .0 | .0 |
| Pennsylvania | .0 | .0 | .0 | .0 | .0 |
| Rhode Island | — | .0 | — | — | .0 |
| South Carolina | .0 | .0 | .0 | .0 | .0 |
| South Dakota | .0 | .0 | .0 | .0 | .0 |
| Tennessee | .0 | .0 | .0 | .0 | .0 |
| Texas | .0 | .1 | .0 | .0 | .0 |
| Utah | .0 | 2.9 | 19.1 | .0 | 1.3 |
| Vermont | — | 21.4 | .0 | — | 3.3 |
| Virginia | .0 | .0 | .1 | .0 | .0 |
| Washington | .0 | .0 | .0 | .0 | .0 |
| West Virginia | .0 | .0 | .0 | .0 | .0 |
| Wisconsin | .0 | 1.0 | .7 | .0 | .4 |
| Wyoming | .0 | .0 | .0 | .0 | .0 |

Notes: •For an explanation of coefficients of variation, see the technical notes. •Estimates for 1999 are preliminary.
Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

# Glossary

**Ampere:** The unit of measurement of electrical current produced in a circuit by 1 volt acting through a resistance of 1 ohm.

**Anthracite:** A hard, black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. Comprises three groups classified according to the following ASTM Specification D388-84, on a dry mineral-matter-free basis:

| | Fixed Carbon Limits | | Volatile Matter | |
|---|---|---|---|---|
| | GE | LT | GT | LE |
| Meta-Anthracite | 98 | - | - | 2 |
| Anthracite | 92 | 98 | 2 | 8 |
| Semianthracite | 86 | 92 | 8 | 14 |

**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.

**Barrel:** A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons.

**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.

**Bcf:** The abbreviation for 1 billion cubic feet.

**Bituminous Coal:** The most common coal. It is dense and black (often with well-defined bands of bright and dull material). Its moisture content usually is less than 20 percent. It is used for generating electricity, making coke, and space heating. Comprises five groups classified according to the following ASTM Specification D388-84, on a dry mineral-matter-free (mmf) basis for fixed-carbon and volatile matter and a moist mmf basis for calorific value.

| | Fixed Carbon Limits | | Volatile Matter Limits | | Calorific Value Limits Btu/lb | |
|---|---|---|---|---|---|---|
| | GE | LT | GT | LT | GE | LE |
| LV | 78 | 86 | 14 | 22 | - | - |
| MV | 69 | 78 | 22 | 31 | - | - |
| HVA | - | 69 | 31 | - | 14000 | - |
| HVB | - | - | - | - | 13000 | 14000 |
| HVC | - | - | - | - | 10500 | 13000 |

LV = Low-volatile bituminous coal
MV = Medium-volatile bituminous coal
HVA = High-volatile A bituminous coal
HVB = High-volatile B bituminous coal
HVC = High-volatile C bituminous coal

**Boiler:** A device for generating steam for power, processing, or heating purposes or for producing hot water for heating purposes or hot water supply. Heat from an external combustion source is transmitted to a fluid contained within the tubes in the boiler shell. This fluid is delivered to an end-use at a desired pressure, temperature, and quality.

**Btu (British Thermal Unit):** A standard unit for measuring the quantity of heat energy equal to the quantity of heat required to raise the temperature of 1 pound of water by 1 degree Fahrenheit.

**Capability:** The maximum load that a generating unit, generating station, or other electrical apparatus can carry under specified conditions for a given period of time without exceeding approved limits of temperature and stress.

**Capacity:** The full-load continuous rating of a generator, prime mover, or other electric equipment under specified conditions as designated by the manufacturer. It is usually indicated on a nameplate attached to the equipment.

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

**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.

**Circuit:** A conductor or a system of conductors through which electric current flows.

**Coal:** A black or brownish-black solid combustible substance formed by the partial decomposition of vegetable matter without access to air. The rank of coal, which includes anthracite, bituminous coal, subbituminous coal, and lignite, is based on fixed carbon, volatile matter, and heating value. Coal rank indicates the progressive alteration from lignite to anthracite. Lignite contains approximately 9 to 17 million Btu per ton. The contents of subbituminous and bituminous coal range from 16 to 24 million Btu per ton and from 19 to 30 million Btu per ton, respectively. Anthracite contains approximately 22 to 28 million Btu per ton.

**Coincidental Demand:** The sum of two or more demands that occur in the same time interval.

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

**Coke (Petroleum):** A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is 5 barrels (42 U.S. gallons each) per short ton.

**Combined Pumped-Storage Plant:** A pumped-storage hydroelectric power plant that uses both pumped water and natural streamflow to produce electricity.

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

**Compressor:** A pump or other type of machine using a turbine to compress a gas by reducing the volume.

**Consumption (Fuel):** The amount of fuel used for gross generation, providing standby service, start-up and/or flame stabilization.

**Contract Receipts:** Purchases based on a negotiated agreement that generally covers a period of 1 or more years.

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

**Crude Oil (including Lease Condensate):** A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and that remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and shale oil. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where identifiable.

**Current (Electric):** A flow of electrons in an electrical conductor. The strength or rate of movement of the electricity is measured in amperes.

**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 Interval:** The time period during which flow of electricity is measured (usually in 15-, 30-, or 60-minute increments.)

**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 Utility:** An enterprise that is engaged in the generation, transmission, or distribution of electric energy primarily for use by the public and that is the major power supplier within a designated service area. Electric utilities include investor-owned, publicly owned, cooperatively owned, and government-owned (municipals, Federal agencies, State projects, and public power districts) systems.

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

**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.

**Fahrenheit:** A temperature scale on which the boiling point of water is at 212 degrees above zero on the scale and the freezing point is at 32 degrees above zero at standard atmospheric pressure.

**Failure or Hazard:** Any electric power supply equipment or facility failure or other event that, in the judgment of the reporting entity, constitutes a hazard to maintaining the continuity of the bulk electric power supply system such that a load reduction action may become necessary and a reportable outage may occur. The imposition of a special operating procedure, the extended purchase of emergency power, other bulk power system actions that may be caused by a natural disaster, a major equipment failure that would impact the bulk power supply, and an environmental and/or regulatory action requiring equipment outages are types of abnormal conditions that should be reported.

**Firm Gas:** Gas sold on a continuous and generally long-term contract.

**Fossil Fuel:** Any naturally occurring organic fuel, such as petroleum, coal, and natural gas.

**Fossil-Fuel Plant:** A plant using coal, petroleum, or gas as its source of energy.

**Fuel:** Any substance that can be burned to produce heat; also, materials that can be fissioned in a chain reaction to produce heat.

**Fuel Emergencies:** An emergency that exists when supplies of fuels or hydroelectric storage for generation are at a level or estimated to be at a level that would threaten the reliability or adequacy of bulk electric power supply. The following factors should be taken into account to determine that a fuel emergency exists: (1) Fuel stock or hydroelectric project water storage levels are 50 percent or less of normal for that particular time of the year and a continued downward trend in fuel stock or hydroelectric project water storage level are estimated; or (2) Unscheduled dispatch or emergency generation is causing an abnormal use of a particular fuel type, such that the future supply or stocks of that fuel could reach a level which threatens the reliability or adequacy of bulk electric power supply.

**Gas:** A fuel burned under boilers and by internal combustion engines for electric generation. These include natural, manufactured and waste gas.

**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.

**Geothermal Plant:** A plant in which the prime mover is a steam turbine. The turbine is driven either by steam produced from hot water or by natural steam that derives its energy from heat found in rocks or fluids at various depths beneath the surface of the earth. The energy is extracted by drilling and/or pumping.

**Gigawatt (GW):** One billion watts.

**Gigawatthour (GWh):** One billion watthours.

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

**Heavy Oil:** The fuel oils remaining after the lighter oils have been distilled off during the refining process.

Except for start-up and flame stabilization, virtually all petroleum used in steam plants is heavy oil.

**Horsepower:** A unit for measuring the rate of work (or power) equivalent to 33,000 foot-pounds per minute or 746 watts.

**Hydroelectric Plant:** A plant in which the turbine generators are driven by falling water.

**Instantaneous Peak Demand:** The maximum demand at the instant of greatest load.

**Integrated Demand:** The summation of the continuously varying instantaneous demand averaged over a specified interval of time. The information is usually determined by examining a demand meter.

**Internal Combustion Plant:** A plant in which the prime mover is an internal combustion engine. An internal combustion engine has one or more cylinders in which the process of combustion takes place, converting energy released from the rapid burning of a fuel-air mixture into mechanical energy. Diesel or gas-fired engines are the principal types used in electric plants. The plant is usually operated during periods of high demand for electricity.

**Interruptible Gas:** Gas sold to customers with a provision that permits curtailment or cessation of service at the discretion of the distributing company under certain circumstances, as specified in the service contract.

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

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

**Light Oil:** Lighter fuel oils distilled off during the refining process. Virtually all petroleum used in internal combustion and gas-turbine engines is light oil.

**Lignite:** A brownish-black coal of low rank with high inherent moisture and volatile matter (used almost exclusively for electric power generation). It is also referred to as brown coal. Comprises two groups classified according to the following ASTM Specification D388-84 for calorific values on a moist material-matter-free basis:

| | Limits Btu/lb. | |
|---|---|---|
| | GE | LT |
| Lignite A | 6300 | 8300 |
| Lignite B | - | 6300 |

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

**Mcf:** One thousand cubic feet.

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

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

**MMcf:** One million cubic feet.

**Natural Gas:** A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in porous geological formations beneath the earth's surface, often in association with petroleum. The principal constituent is methane.

**Net Energy for Load:** Net generation of main generating units that are system-owned or system-operated plus energy receipts minus energy deliveries.

**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 demand.

**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. The NERC Regions are:

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

**Nuclear Fuel:** Fissionable materials that have been enriched to such a composition that, when placed in a nuclear reactor, will support a self-sustaining fission chain reaction, producing heat in a controlled manner for process use.

**Nuclear Power Plant:** A facility in which heat produced in a reactor by the fissioning of nuclear fuel is used to drive a steam turbine.

**Off-Peak Gas:** Gas that is to be delivered and taken on demand when demand is not at its peak.

**Ohm:** The unit of measurement of electrical resistance. The resistance of a circuit in which a potential difference of 1 volt produces a current of 1 ampere.

**Operable Nuclear Unit:** A nuclear unit is "operable" after it completes low-power testing and is granted authorization to operate at full power. This occurs when it receives its full power amendment to its operating license from the Nuclear Regulatory Commission.

**Other Gas:** Includes manufactured gas, coke-oven gas, blast-furnace gas, and refinery gas. Manufactured gas is obtained by distillation of coal, by the thermal decomposition of oil, or by the reaction of steam passing through a bed of heated coal or coke.

**Other Generation:** Electricity originating from these sources: biomass, fuel cells, geothermal heat, solar power, waste, wind, and wood.

**Other Unavailable Capability:** Net capability of main generating units that are unavailable for load for reasons other than full-forced outrage or scheduled maintenance. Legal restrictions or other causes make these units unavailable.

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

**Peak Load Plant:** A plant usually housing old, low-efficiency steam units; gas turbines; diesels; or pumped-storage hydroelectric equipment normally used during the peak-load periods.

**Peaking Capacity:** Capacity of generating equipment normally 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.

**Petroleum:** A mixture of hydrocarbons existing in the liquid state found in natural underground reservoirs, often associated with gas. Petroleum includes fuel oil No. 2, No. 4, No. 5, No. 6; topped crude; Kerosene; and jet fuel.

**Petroleum Coke:** See Coke (Petroleum).

**Petroleum (Crude Oil):** A naturally occurring, oily, flammable liquid composed principally of hydrocarbons. Crude oil is occasionally found in springs or pools but usually is drilled from wells beneath the earth's surface.

**Plant:** A facility at which are located prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or nuclear energy into electric energy. A plant may contain more than one type of prime mover. Electric utility plants exclude facilities that satisfy the definition of a qualifying facility under the Public Utility Regulatory Policies Act of 1978.

**Plant Use:** The electric energy used in the operation of a plant. Included in this definition is the energy required for pumping at pumped-storage plants.

**Plant-Use Electricity:** The electric energy used in the operation of a plant. This energy total is subtracted from the gross energy production of the plant; for reporting purposes the plant energy production is then reported as a net figure. The energy required for pumping at pumped-storage plants is, by definition, subtracted, and the energy production for these plants is then reported as a net figure.

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

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

**Prime Mover:** The motive force that drives an electric generator (e.g., steam engine, turbine, or water wheel).

**Production (Electric):** Act or process of producing electric energy from other forms of energy; also, the amount of electric energy expressed in watthours (Wh).

**Pumped-Storage Hydroelectric Plant:** A plant that usually generates electric energy during peak-load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can

be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

**Pure Pumped-Storage Hydroelectric Plant:** A plant that produces power only from water that has previously been pumped to an upper reservoir.

**Qualifying Facility (QF):** This is a cogenerator or small power producer that meets certain ownership, operating and efficiency criteria established by the Federal Energy Regulatory Commission (FERC) pursuant to the PURPA, and has filed with the FERC for QF status or has self-certified. For additional information, see the Code of Federal Regulation, Title 18, Part 292.

**Railroad and Railway Electric Service:** Electricity supplied to railroads and interurban and street railways, for general railroad use, including the propulsion of cars or locomotives, where such electricity is supplied under separate and distinct rate schedules.

**Receipts:** Purchases of fuel.

**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.

**Restoration Time:** The time when the major portion of the interrupted load has been restored and the emergency is considered to be ended. However, some of the loads interrupted may not have been restored due to local problems.

**Restricted-Universe Census:** This is the complete enumeration of data from a specifically defined subset of entities including, for example, those that exceed a given level of sales or generator nameplate capacity.

**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.

**Running and Quick-Start Capability:** The net capability of generating units that carry load or have quick-start capability. In general, quick-start capability refers to generating units that can be available for load within a 30-minute period.

**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.

**Scheduled Outage:** The shutdown of a generating unit, transmission line, or other facility, for inspection or maintenance, in accordance with an advance schedule.

**Short Ton:** A unit of weight equal to 2,000 pounds.

**Spot Purchases:** A single shipment of fuel or volumes of fuel, purchased for delivery within 1 year. Spot purchases are often made by a user to fulfill a certain portion of energy requirements, to meet unanticipated energy needs, or to take advantage of low-fuel prices.

**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.

**Steam-Electric Plant (Conventional):** A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

**Stocks:** A supply of fuel accumulated for future use. This includes coal and fuel oil stocks at the plant site, in coal cars, tanks, or barges at the plant site, or at separate storage sites.

**Subbituminous Coal:** Subbituminous coal, or black lignite, is dull black and generally contains 20 to 30 percent moisture. The heat content of subbituminous coal ranges from 16 to 24 million Btu per ton as received and averages about 18 million Btu per ton. Subbituminous coal, mined in the western coal fields, is used for generating electricity and space heating.

**Substation:** Facility equipment that switches, changes, or regulates electric voltage.

**Sulfur:** One of the elements present in varying quantities in coal which contributes to environmental degradation when coal is burned. In terms of sulfur content by weight, coal is generally classified as low (less than or

equal to 1 percent), medium (greater than 1 percent and less than or equal to 3 percent), and high (greater than 3 percent). Sulfur content is measured as a percent by weight of coal on an "as received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

**Switching Station:** Facility equipment used to tie together two or more electric circuits through switches. The switches are selectively arranged to permit a circuit to be disconnected, or to change the electric connection between the circuits.

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

**Transformer:** An electrical device for changing the voltage of alternating current.

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

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

**Turbine:** A machine for generating rotary mechanical power from the energy of a stream of fluid (such as water, steam, or hot gas). Turbines convert the kinetic energy of fluids to mechanical energy through the principles of impulse and reaction, or a mixture of the two.

**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 inter-vening systems. Wheeling service contracts can be established between two or more systems.

**Year to Date:** The cumulative sum of each month's value starting with January and ending with the current month of the data.