

## 10. ENERGY

The U.S. Department of Energy was created in October 1977 to centralize the responsibilities of the Federal Power Commission, the U.S. Bureau of Mines, the Federal Energy Administration, and the U.S. Energy Research Administration. Data from publications of the U.S. Department of Energy, Energy Information Administration (EIA), provide information on energy consumption by type of fuel and consuming sector. While the utilization of fuel minerals is presented as "energy" data, information on mineral production and reserves is included in Chapter 5 on Mining.

### TABLE OF CONTENTS

#### **FIGURE 10.1— Tennessee Energy Consumption by Sector and Fuel Type, 1999**

- TABLE 10.1 — CONSUMPTION OF ENERGY, BY TYPE, TENNESSEE, 1960—1999, SELECTED YEARS [In trillions of BTU]
- TABLE 10.2 — TOTAL ENERGY CONSUMPTION, BY SECTOR, TENNESSEE, 1960—1999, SELECTED YEARS [In trillions of BTU]
- TABLE 10.3 — CONSUMPTION OF COAL, BY SECTOR, TENNESSEE, 1960—1999, SELECTED YEARS
- TABLE 10.4 — CONSUMPTION OF NATURAL GAS, BY SECTOR, TENNESSEE, 1960—1999, SELECTED YEARS
- TABLE 10.5 — CONSUMPTION OF PETROLEUM, BY SECTOR, TENNESSEE, 1960—1999, SELECTED YEARS
- TABLE 10.6 — NET GENERATION FROM ELECTRIC UTILITIES, BY ENERGY SOURCE, TENNESSEE, 1980—2000, SELECTED YEARS [In gigawatt-hours]
- TABLE 10.7 — FUEL CONSUMPTION FOR ELECTRIC ENERGY, TENNESSEE, 1976—2000, SELECTED YEARS
- TABLE 10.8 — AVERAGE FUEL COSTS AT ELECTRIC UTILITIES, TENNESSEE, 1980—2000, SELECTED YEARS

#### **FIGURE 10.2— TVA Generating Plants in Tennessee**

- TABLE 10.9 — ELECTRICITY SALES STATISTICS, TVA, SEPTEMBER 30, 1995—2001, SELECTED YEARS
- TABLE 10.10—ELECTRICITY SALES STATISTICS, TENNESSEE, 2000
- TABLE 10.11—COMMERCIAL AND INDUSTRIAL ELECTRICITY SALES, TENNESSEE, 2000
- TABLE 10.12—CAPACITY AND INVESTMENT STATUS OF TENNESSEE VALLEY AUTHORITY'S NUCLEAR PLANTS, 2001
- TABLE 10.13—FUEL COSTS AT ELECTRIC UTILITIES, SOUTHEASTERN STATES AND UNITED STATES, 2000
- TABLE 10.14—ENERGY CONSUMPTION, BY SOURCE, SOUTHEASTERN STATES, 1980 AND 1999 [In trillions of BTU]
- TABLE 10.15—NET ELECTRIC ENERGY GENERATION, UTILITIES, BY ENERGY SOURCE, SOUTHEASTERN STATES, 2000 [In gigawatt-hours]
- TABLE 10.16—FUEL CONSUMPTION FOR ELECTRIC ENERGY, SOUTHEASTERN STATES AND UNITED STATES, 2000
- TABLE 10.17—SALES OF ELECTRIC ENERGY TO ULTIMATE CUSTOMERS, BY CLASS OF SERVICE, 2000, AND TOTAL SALES, 1980 — 2000, SELECTED YEARS, SOUTHEASTERN STATES [In gigawatt-hours]

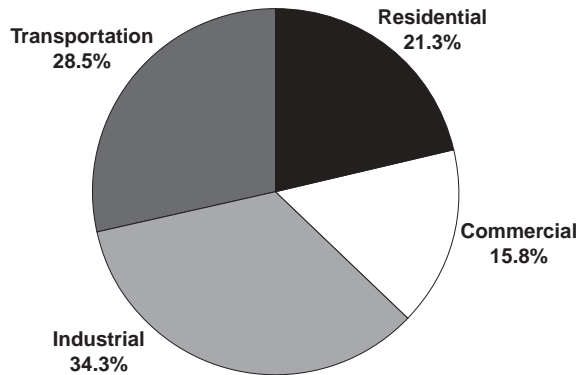
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**TABLE OF CONTENTS, CONTINUED**

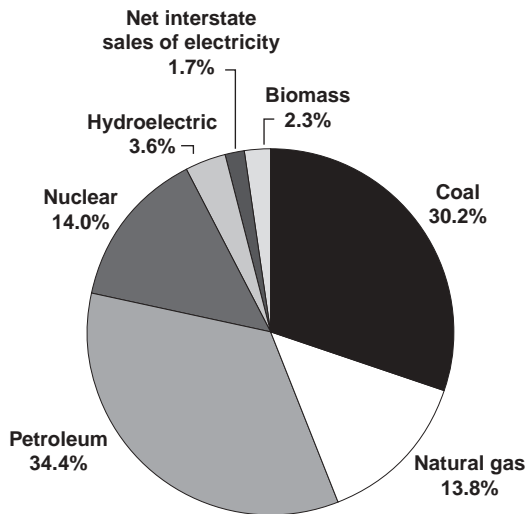
- TABLE 10.18—AVERAGE REVENUE PER KILOWATT-HOUR, BY SECTOR, SOUTHEASTERN STATES AND UNITED STATES, 1993,1998 AND 2000 [In cents per kilowatt-hour]
- TABLE 10.19—NATURAL GAS DELIVERED TO CONSUMERS, BY CLASS OF SERVICE, 2000, AND TOTAL, 1980—2000, SELECTED YEARS, SOUTHEASTERN STATES [In millions of cubic feet]
- TABLE 10.20—NUMBER OF NATURAL GAS CONSUMERS, BY CLASS OF SERVICE, SOUTHEASTERN STATES, 1970—2000, SELECTED YEARS [In thousands]
- TABLE 10.21—AVERAGE ANNUAL CONSUMPTION PER CONSUMER AND AVERAGE PRICE OF NATURAL GAS, BY CLASS OF SERVICE 2000, AND AVERAGE RESIDENTIAL CONSUMPTION, 1991—2000, SELECTED YEARS, SOUTHEASTERN STATES AND UNITED STATES [In 1,000 cu. ft. and dollar per 1,000 cu. ft.]
- TABLE 10.22—NUMBER AND CAPACITY OF OPERABLE PETROLEUM REFINERIES, SOUTHEASTERN STATES AND UNITED STATES, AS OF JANUARY 1, 2002
- TABLE 10.23—NUCLEAR POWER PLANTS: NUMBER OF UNITS, NET SUMMER CAPABILITY, AND NET GENERATION, SOUTHEASTERN STATES AND UNITED STATES, 1999

**FIGURE 10.1**  
**Tennessee Energy Consumption by Sector and Fuel Type, 1999**

**Consumption by Sector**



**Consumption by Type**



Source: U.S. Department of Energy, Energy Information Administration, Office of Energy Markets and End Use, State Energy Data Report, <<http://www.eia.doe.gov/emeu/sep/states.html>> (Accessed 5 August 2002).

TABLE 10.1 — CONSUMPTION OF ENERGY, BY TYPE, TENNESSEE, 1960—1999, SELECTED YEARS [In trillions of BTU]

| Year | Total   | Coal  | Natural gas <sup>1</sup> | Petroleum | Nuclear | Hydro-electric <sup>2</sup> | Net interstate sales of electricity <sup>3</sup> | Wood, waste and other |
|------|---------|-------|--------------------------|-----------|---------|-----------------------------|--|-----------------------|
| 1999 | 2,070.5 | 625.8 | 285.8                    | 712.7     | 289.2   | 74.0                        | 34.5   | 48.4                  |
| 1998 | 2,057.3 | 634.5 | 288.7                    | 695.9     | 301.6   | 105.4                       | -1.0   | 32.3                  |
| 1997 | 2,013.0 | 673.5 | 291.1                    | 664.1     | 261.8   | 102.2                       | -29.7  | 49.9                  |
| 1996 | 2,028.2 | 648.6 | 289.3                    | 656.3     | 243.5   | 110.8                       | 19.3   | 60.5                  |
| 1995 | 1,968.7 | 668.2 | 264.8                    | 675.8     | 167.4   | 92.3                        | 37.3   | 63.0                  |
| 1994 | 1,951.1 | 622.9 | 254.0                    | 653.1     | 127.4   | 115.6                       | 112.6  | 65.5                  |
| 1993 | 1,886.8 | 685.9 | 263.1                    | 625.9     | 35.3    | 86.5                        | 137.9  | 52.1                  |
| 1992 | 1,852.3 | 590.6 | 249.2                    | 609.7     | 167.1   | 99.2                        | 78.4   | 58.1                  |
| 1991 | 1,805.3 | 565.5 | 234.6                    | 568.7     | 178.1   | 109.5                       | 91.8   | 57.0                  |
| 1990 | 1,811.2 | 600.3 | 227.5                    | 589.5     | 149.5   | 99.2                        | 90.2   | 55.0                  |
| 1989 | 1,830.3 | 564.4 | 228.6                    | 594.8     | 167.3   | 123.6                       | 80.3   | n.a.                  |
| 1988 | 1,802.6 | 610.6 | 220.9                    | 581.2     | 42.3    | 47.4                        | 212.6  | n.a.                  |
| 1987 | 1,743.0 | 596.5 | 207.0                    | 570.9     | -1.2    | 78.8                        | 206.8  | n.a.                  |
| 1986 | 1,732.7 | 605.7 | 194.0                    | 583.4     | -1.1    | 55.6                        | 206.3  | n.a.                  |
| 1985 | 1,732.7 | 599.7 | 196.7                    | 552.5     | 104.6   | 68.3                        | 121.3  | 89.6                  |
| 1984 | 1,764.3 | 555.3 | 211.3                    | 540.7     | 135.6   | 106.3                       | 124.6  | n.a.                  |
| 1983 | 1,672.1 | 547.1 | 199.1                    | 493.3     | 153.2   | 104.7                       | 104.1  | n.a.                  |
| 1982 | 1,621.3 | 470.7 | 212.1                    | 502.4     | 111.9   | 102.1                       | 157.8  | n.a.                  |
| 1981 | 1,718.8 | 565.9 | 227.1                    | 518.0     | 51.9    | 61.8                        | 229.1  | n.a.                  |
| 1980 | 1,753.7 | 576.9 | 233.3                    | 529.7     | 5.7     | 91.0                        | 255.0  | 62.1                  |
| 1979 | 1,833.4 | 542.3 | 233.9                    | 593.3     | 0.0     | 127.4                       | 256.7  | n.a.                  |
| 1978 | 1,789.5 | 564.7 | 189.2                    | 630.5     | 0.0     | 91.0                        | 242.1  | n.a.                  |
| 1977 | 1,803.3 | 553.7 | 208.4                    | 600.3     | 0.0     | 108.5                       | 264.6  | n.a.                  |
| 1976 | 1,737.8 | 561.5 | 218.5                    | 565.4     | 0.0     | 98.3                        | 232.3  | n.a.                  |
| 1975 | 1,628.2 | 471.9 | 224.1                    | 503.6     | 0.0     | 122.9                       | 251.3  | 54.4                  |
| 1974 | 1,595.3 | 470.3 | 265.4                    | 483.0     | 0.0     | 122.9                       | 196.2  | n.a.                  |
| 1973 | 1,630.7 | 532.9 | 300.1                    | 498.1     | 0.0     | 119.0                       | 121.7  | n.a.                  |
| 1972 | 1,487.5 | 444.3 | 283.4                    | 455.5     | 0.0     | 115.5                       | 131.2  | n.a.                  |
| 1971 | 1,381.7 | 370.0 | 270.8                    | 412.4     | 0.0     | 98.7                        | 175.4  | n.a.                  |
| 1970 | 1,383.8 | 403.7 | 261.8                    | 406.7     | 0.0     | 84.7                        | 173.2  | 53.8                  |
| 1969 | 1,358.0 | 436.7 | 257.5                    | 400.0     | 0.0     | 78.1                        | 131.8  | n.a.                  |
| 1968 | 1,301.0 | 439.3 | 243.4                    | 377.2     | 0.0     | 80.3                        | 109.2  | n.a.                  |
| 1967 | 1,250.8 | 352.0 | 242.0                    | 347.7     | 0.0     | 100.4                       | 161.9  | n.a.                  |
| 1966 | 1,245.1 | 363.7 | 236.8                    | 338.9     | 0.0     | 79.5                        | 177.1  | n.a.                  |
| 1965 | 1,147.0 | 338.8 | 211.1                    | 300.9     | 0.0     | 91.5                        | 158.1  | 46.5                  |
| 1960 | 964.7   | 374.4 | 151.7                    | 228.5     | 0.0     | 93.4                        | 71.4   | 45.4                  |

Note: Some changes in methodology were made and, where necessary, revisions were applied to the entire historical series. Totals may not equal sum of components due to independent rounding. Excludes small quantities of other energy sources for which consistent historical data are not available.

n.a. not available.

1. Includes supplemental gaseous fuels.
2. Includes industrial and utility production, and net imports of electricity.
3. Net interstate sales of electricity is the difference between the amounts of energy in the electricity sold within a state (including associated losses) and the energy input at the electric utilities within the state. The net interstate sales, therefore, include associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the state than went out of the state during the year.

Source: U.S. Department of Energy, Energy Information Administration, Office of Energy Markets and End Use, State Energy Data Report, <<http://www.eia.doe.gov/emeu/sep/states.html>> (Accessed 5 August 2002).

TABLE 10.2 — TOTAL ENERGY CONSUMPTION, BY SECTOR, TENNESSEE, 1960—1999, SELECTED YEARS [In trillions of BTU]

| Year | Residential | Commercial | Industrial | Transportation |
|------|-------------|------------|------------|----------------|
| 1999 | 441.5       | 328.1      | 710.8      | 590.1          |
| 1998 | 451.8       | 333.7      | 710.1      | 561.6          |
| 1997 | 439.4       | 339.2      | 683.5      | 550.8          |
| 1996 | 476.9       | 140.5      | 865.1      | 545.7          |
| 1995 | 417.5       | 128.9      | 890.9      | 531.3          |
| 1994 | 432.7       | 127.7      | 884.6      | 506.2          |
| 1993 | 409.2       | 128.9      | 858.2      | 490.6          |
| 1992 | 402.1       | 140.7      | 848.2      | 461.3          |
| 1991 | 402.7       | 200.7      | 761.8      | 440.1          |
| 1990 | 390.5       | 199.7      | 756.7      | 464.2          |
| 1989 | 406.9       | 198.2      | 752.2      | 473.0          |
| 1988 | 400.0       | 180.0      | 762.0      | 460.6          |
| 1987 | 388.4       | 173.1      | 729.4      | 452.2          |
| 1986 | 371.7       | 168.2      | 728.3      | 464.4          |
| 1985 | 375.1       | 183.1      | 742.9      | 431.5          |
| 1984 | 388.1       | 184.2      | 761.1      | 430.9          |
| 1983 | 356.2       | 256.4      | 664.5      | 395.1          |
| 1982 | 353.3       | 236.4      | 633.3      | 398.3          |
| 1981 | 351.2       | 234.5      | 724.4      | 408.7          |
| 1980 | 377.3       | 225.4      | 742.2      | 408.9          |
| 1979 | 383.0       | 219.5      | 780.7      | 450.3          |
| 1978 | 392.5       | 206.8      | 746.9      | 443.2          |
| 1977 | 397.6       | 174.0      | 813.4      | 418.4          |
| 1976 | 362.7       | 147.1      | 821.9      | 406.1          |
| 1975 | 352.2       | 144.6      | 741.1      | 390.2          |
| 1974 | 313.1       | 153.7      | 747.6      | 380.9          |
| 1973 | 322.1       | 156.3      | 764.1      | 388.2          |
| 1972 | 315.0       | 149.8      | 667.0      | 355.6          |
| 1971 | 301.3       | 142.4      | 612.7      | 325.4          |
| 1970 | 299.0       | 134.9      | 641.5      | 308.4          |
| 1969 | 286.2       | 129.5      | 646.2      | 296.1          |
| 1968 | 264.5       | 119.5      | 639.5      | 277.5          |
| 1967 | 237.3       | 108.6      | 647.1      | 257.8          |
| 1966 | 233.6       | 102.3      | 660.1      | 249.0          |
| 1965 | 214.0       | 94.6       | 607.5      | 230.9          |
| 1960 | 180.5       | 77.7       | 532.5      | 174.0          |

Source: U.S. Department of Energy, Energy Information Administration, Office of Energy Markets and End Use, State Energy Data Report, <<http://www.eia.doe.gov/emeu/sep/states.html>> (Accessed 5 August 2002).

TABLE 10.3 — CONSUMPTION OF COAL, BY SECTOR, TENNESSEE, 1960—1999, SELECTED YEARS

| Year | Residential  |                     | Commercial   |                     | Industrial   |                     |
|------|--------------|---------------------|--------------|---------------------|--------------|---------------------|
|      | Trillion BTU | Thousand short tons | Trillion BTU | Thousand short tons | Trillion BTU | Thousand short tons |
| 1999 | 0.8          | 34                  | 1.6          | 64                  | 83.2         | 3,325               |
| 1998 | 0.2          | 9                   | 0.4          | 16                  | 86.6         | 3,463               |
| 1997 | 1.1          | 46                  | 2.1          | 85                  | 90.2         | 3,608               |
| 1996 | 1.0          | 39                  | 1.8          | 72                  | 91.8         | 3,670               |
| 1995 | 1.3          | 51                  | 2.4          | 94                  | 94.9         | 3,777               |
| 1994 | 0.8          | 32                  | 1.5          | 58                  | 102.7        | 4,097               |
| 1993 | 1.0          | 39                  | 1.8          | 72                  | 99.2         | 3,942               |
| 1992 | 1.3          | 55                  | 2.5          | 102                 | 93.1         | 3,686               |
| 1991 | 1.6          | 63                  | 2.7          | 109                 | 93.5         | 3,720               |
| 1990 | 1.9          | 78                  | 3.5          | 140                 | 96.8         | 3,846               |
| 1989 | 1.9          | 78                  | 3.5          | 142                 | 100.3        | 4,058               |
| 1988 | 1.6          | 66                  | 3.0          | 123                 | 99.8         | 4,020               |
| 1987 | 0.8          | 34                  | 1.6          | 64                  | 98.3         | 3,954               |
| 1986 | 0.7          | 28                  | 1.2          | 51                  | 102.5        | 4,142               |
| 1985 | 1.4          | 59                  | 2.7          | 110                 | 102.2        | 4,145               |
| 1984 | 2.6          | 108                 | 4.9          | 200                 | 96.7         | 3,941               |
| 1983 | 4.1          | 168                 | 7.7          | 312                 | 95.5         | 3,936               |
| 1982 | 1.5          | 62                  | 2.7          | 114                 | 75.9         | 3,122               |
| 1981 | 1.2          | 50                  | 2.2          | 92                  | 86.4         | 3,573               |
| 1980 | 2.0          | 82                  | 3.6          | 152                 | 67.2         | 2,774               |
| 1979 | 1.5          | 66                  | 2.8          | 122                 | 74.4         | 3,092               |
| 1978 | 1.8          | 75                  | 3.2          | 139                 | 71.8         | 3,018               |
| 1977 | 2.0          | 83                  | 3.6          | 154                 | 66.6         | 2,821               |
| 1976 | 2.1          | 86                  | 3.8          | 159                 | 54.1         | 2,270               |
| 1975 | 2.7          | 114                 | 5.0          | 211                 | 49.9         | 2,134               |
| 1974 | 2.8          | 120                 | 5.1          | 222                 | 56.6         | 2,450               |
| 1973 | 3.2          | 134                 | 5.8          | 248                 | 59.5         | 2,551               |
| 1972 | 3.6          | 152                 | 6.6          | 280                 | 53.2         | 2,286               |
| 1971 | 4.8          | 204                 | 8.9          | 377                 | 45.7         | 1,947               |
| 1970 | 4.5          | 191                 | 8.4          | 352                 | 58.0         | 2,452               |
| 1969 | 5.4          | 225                 | 10.1         | 416                 | 66.8         | 2,747               |
| 1968 | 4.5          | 184                 | 8.3          | 339                 | 82.7         | 3,365               |
| 1967 | 4.5          | 183                 | 8.3          | 338                 | 76.9         | 3,127               |
| 1966 | 5.2          | 214                 | 9.7          | 395                 | 79.4         | 3,203               |
| 1965 | 5.7          | 233                 | 10.6         | 430                 | 71.4         | 2,862               |
| 1960 | 8.3          | 336                 | 15.3         | 618                 | 58.1         | 2,307               |

Source: U.S. Department of Energy, Energy Information Administration, Office of Energy Markets and End Use, State Energy Data Report, 1993, <<http://www.eia.doe.gov/emeu/sep/states.html>> (Accessed 5 August 2002).

TABLE 10.4 — CONSUMPTION OF NATURAL GAS, BY SECTOR, TENNESSEE, 1960—1999, SELECTED YEARS

| Year | Residential  |                 | Commercial   |                 | Industrial   |                 | Transportation |                 |
|------|--------------|-----------------|--------------|-----------------|--------------|-----------------|----------------|-----------------|
|      | Trillion BTU | Billion cu. ft. | Trillion BTU | Billion cu. ft. | Trillion BTU | Billion cu. ft. | Trillion BTU   | Billion cu. ft. |
| 1999 | 60.6         | 59              | 52.8         | 51              | 143.0        | 139             | 25.9           | 25              |
| 1998 | 61.2         | 59              | 54.0         | 52              | 150.2        | 146             | 16.9           | 16              |
| 1997 | 66.1         | 64              | 56.8         | 55              | 143.2        | 139             | 23.3           | 23              |
| 1996 | 72.7         | 70              | 60.4         | 58              | 130.6        | 127             | 25.0           | 24              |
| 1995 | 61.9         | 60              | 52.8         | 51              | 129.8        | 126             | 18.2           | 18              |
| 1994 | 59.2         | 57              | 52.4         | 51              | 122.7        | 119             | 18.7           | 18              |
| 1993 | 61.0         | 59              | 52.5         | 51              | 128.7        | 124             | 19.3           | 19              |
| 1992 | 53.8         | 52              | 48.0         | 47              | 130.2        | 126             | 16.9           | 16              |
| 1991 | 51.0         | 49              | 47.5         | 46              | 119.7        | 116             | 16.3           | 16              |
| 1990 | 48.0         | 46              | 45.1         | 44              | 113.6        | 110             | 20.3           | 20              |
| 1989 | 50.8         | 49              | 49.0         | 48              | 110.4        | 107             | 18.4           | 18              |
| 1988 | 49.1         | 48              | 47.3         | 46              | 106.6        | 103             | 17.6           | 17              |
| 1987 | 44.9         | 43              | 45.6         | 44              | 100.8        | 98              | 15.8           | 15              |
| 1986 | 41.5         | 40              | 44.0         | 43              | 94.5         | 92              | 14.0           | 14              |
| 1985 | 40.8         | 39              | 44.9         | 43              | 100.6        | 97              | 10.5           | 10              |
| 1984 | 45.1         | 44              | 47.7         | 47              | 105.5        | 103             | 13.0           | 13              |
| 1983 | 41.5         | 41              | 43.9         | 43              | 102.4        | 100             | 11.1           | 11              |
| 1982 | 43.0         | 42              | 39.6         | 39              | 112.5        | 110             | 17.0           | 17              |
| 1981 | 42.5         | 42              | 43.4         | 43              | 123.1        | 121             | 17.8           | 18              |
| 1980 | 45.6         | 45              | 44.8         | 44              | 125.1        | 123             | 16.8           | 16              |
| 1979 | 46.6         | 45              | 44.1         | 43              | 122.3        | 118             | 20.8           | 20              |
| 1978 | 40.9         | 40              | 31.8         | 31              | 101.7        | 99              | 14.8           | 14              |
| 1977 | 44.9         | 44              | 36.2         | 35              | 113.0        | 110             | 14.3           | 14              |
| 1976 | 45.0         | 44              | 39.4         | 38              | 118.4        | 115             | 15.5           | 15              |
| 1975 | 45.4         | 44              | 43.8         | 42              | 115.1        | 112             | 19.7           | 19              |
| 1974 | 44.5         | 44              | 45.5         | 45              | 150.9        | 148             | 24.5           | 24              |
| 1973 | 46.9         | 46              | 46.9         | 46              | 164.5        | 161             | 29.0           | 28              |
| 1972 | 54.9         | 54              | 46.6         | 46              | 139.1        | 136             | 25.9           | 25              |
| 1971 | 48.0         | 47              | 45.0         | 44              | 132.1        | 129             | 27.2           | 27              |
| 1970 | 47.6         | 47              | 43.7         | 43              | 125.9        | 123             | 27.0           | 26              |
| 1969 | 47.2         | 45              | 42.7         | 41              | 122.8        | 118             | 25.9           | 25              |
| 1968 | 45.5         | 44              | 39.8         | 38              | 112.4        | 108             | 23.3           | 22              |
| 1967 | 43.4         | 42              | 35.8         | 34              | 113.5        | 109             | 23.2           | 22              |
| 1966 | 42.7         | 41              | 32.8         | 31              | 114.6        | 109             | 23.0           | 22              |
| 1965 | 38.9         | 37              | 29.6         | 28              | 101.9        | 97              | 23.7           | 23              |
| 1960 | 35.1         | 34              | 25.1         | 24              | 78.6         | 76              | 5.5            | 5               |

Note: Some changes in methodology were made and, where necessary, revisions were applied to the entire historical series.

1. Includes supplemental gaseous fuels.

Source: U.S. Department of Energy, Energy Information Administration, Office of Energy Markets and End Use, State Energy Data Report, <<http://www.eia.doe.gov/emeu/sep/states.html>> (Accessed 5 August 2002).

TABLE 10.5 — CONSUMPTION OF PETROLEUM, BY SECTOR, TENNESSEE, 1960—1999, SELECTED YEARS

| Year | Residential  |                  | Commercial   |                  | Industrial   |                  | Transportation |                  |
|------|--------------|------------------|--------------|------------------|--------------|------------------|----------------|------------------|
|      | Trillion BTU | Thousand barrels | Trillion BTU | Thousand barrels | Trillion BTU | Thousand barrels | Trillion BTU   | Thousand barrels |
| 1999 | 14.6         | 3,680            | 7.6          | 1,512            | 120.2        | 20,254           | 564.2          | 104,462          |
| 1998 | 12.5         | 3,083            | 8.0          | 1,537            | 122.3        | 20,367           | 544.7          | 100,794          |
| 1997 | 13.3         | 3,269            | 7.8          | 1,524            | 113.2        | 19,223           | 527.6          | 97,725           |
| 1996 | 14.5         | 3,585            | 8.1          | 1,589            | 110.3        | 18,649           | 520.7          | 96,370           |
| 1995 | 11.5         | 2,782            | 6.8          | 1,318            | 141.7        | 24,416           | 513.1          | 95,070           |
| 1994 | 11.9         | 2,853            | 8.1          | 1,533            | 142.6        | 24,547           | 487.5          | 90,362           |
| 1993 | 10.9         | 2,716            | 8.5          | 1,622            | 132.9        | 22,962           | 471.2          | 87,089           |
| 1992 | 11.1         | 2,715            | 10.0         | 1,883            | 142.9        | 25,131           | 444.4          | 82,144           |
| 1991 | 10.1         | 2,472            | 7.2          | 1,410            | 126.0        | 21,634           | 423.8          | 78,324           |
| 1990 | 9.4          | 2,277            | 7.8          | 1,504            | 126.9        | 21,694           | 443.9          | 81,974           |
| 1989 | 12.2         | 2,840            | 9.1          | 1,737            | 116.9        | 20,033           | 454.6          | 84,018           |
| 1988 | 11.3         | 2,604            | 12.1         | 2,247            | 112.7        | 19,499           | 443.0          | 81,953           |
| 1987 | 9.0          | 2,084            | 10.8         | 1,976            | 113.4        | 19,561           | 436.4          | 80,678           |
| 1986 | 8.0          | 1,920            | 12.6         | 2,283            | 111.1        | 19,133           | 450.4          | 83,400           |
| 1985 | 10.0         | 2,205            | 22.1         | 3,901            | 98.0         | 16,677           | 421.0          | 78,087           |
| 1984 | 10.8         | 2,323            | 17.9         | 3,214            | 92.9         | 15,859           | 417.8          | 77,468           |
| 1983 | 10.3         | 2,282            | 17.0         | 3,060            | 80.3         | 13,597           | 383.9          | 71,285           |
| 1982 | 9.3          | 2,030            | 11.2         | 2,031            | 98.9         | 16,848           | 381.3          | 70,899           |
| 1981 | 10.6         | 2,139            | 10.5         | 1,901            | 104.1        | 17,815           | 390.9          | 72,557           |
| 1980 | 10.4         | 2,358            | 10.2         | 1,897            | 114.5        | 19,730           | 392.1          | 72,828           |
| 1979 | 12.4         | 2,728            | 9.6          | 1,795            | 137.8        | 23,488           | 429.4          | 79,525           |
| 1978 | 18.9         | 4,148            | 11.0         | 2,101            | 142.0        | 23,777           | 428.4          | 79,572           |
| 1977 | 19.9         | 4,372            | 11.1         | 2,119            | 143.4        | 23,910           | 404.1          | 75,139           |
| 1976 | 21.2         | 4,663            | 11.7         | 2,222            | 127.5        | 21,386           | 390.5          | 72,639           |
| 1975 | 19.1         | 4,320            | 8.9          | 1,757            | 97.5         | 16,379           | 370.5          | 68,953           |
| 1974 | 19.3         | 4,244            | 8.6          | 1,674            | 97.0         | 16,337           | 356.4          | 66,353           |
| 1973 | 22.2         | 4,843            | 9.4          | 1,841            | 105.6        | 17,660           | 359.2          | 66,893           |
| 1972 | 20.1         | 4,425            | 8.5          | 1,666            | 96.3         | 16,156           | 329.7          | 61,427           |
| 1971 | 21.4         | 4,551            | 8.2          | 1,607            | 84.6         | 14,225           | 298.1          | 55,637           |
| 1970 | 21.2         | 4,512            | 8.3          | 1,622            | 95.9         | 16,245           | 281.2          | 52,469           |
| 1969 | 20.5         | 4,366            | 8.1          | 1,574            | 101.4        | 17,204           | 270.0          | 50,426           |
| 1968 | 19.7         | 4,063            | 8.1          | 1,559            | 95.3         | 16,168           | 254.0          | 47,469           |
| 1967 | 17.9         | 3,699            | 7.5          | 1,429            | 87.9         | 14,913           | 234.4          | 43,919           |
| 1966 | 13.3         | 2,780            | 6.1          | 1,171            | 93.7         | 15,792           | 225.8          | 42,282           |
| 1965 | 10.1         | 2,117            | 4.7          | 899              | 79.2         | 13,410           | 206.9          | 38,819           |
| 1960 | 8.4          | 1,740            | 3.6          | 682              | 48.9         | 8,301            | 167.6          | 31,527           |

r revised.

Source: U.S. Department of Energy, Energy Information Administration, Office of Energy Markets and End Use, State Energy Data Report, <<http://www.eia.doe.gov/emeu/sep/states.html>> (Accessed 5 August 2002).



TABLE 10.6 — NET GENERATION FROM ELECTRIC UTILITIES, BY ENERGY SOURCE, TENNESSEE, 1980—2000, SELECTED YEARS [In gigawatt-hours]

| Type of generation | 2000   | 1999   | 1998   | 1997   | 1996   | 1994   | 1993   | 1990   | 1985   | 1980   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total              | 92,314 | 89,683 | 94,143 | 40,283 | 88,647 | 74,854 | 71,614 | 73,903 | 66,581 | 60,211 |
| Coal               | 60,677 | 55,221 | 55,120 | 58,889 | 55,504 | 52,132 | 59,560 | 50,187 | 50,242 | 50,617 |
| Petroleum          | 540    | 502    | 699    | 193    | 258    | 296    | 235    | 134    | 128    | 198    |
| Gas                | 127    | 234    | 551    | 152    | 61     | 95     | 121    | 41     | (a)    | 114    |
| Nuclear            | 25,825 | 27,227 | 28,388 | 24,648 | 22,924 | 11,932 | 3,305  | 14,003 | 9,672  | 519    |
| Hydroelectric      | 5,145  | 6,499  | 9,385  | 9,401  | 9,900  | 10,399 | 8,394  | 9,537  | 6,539  | 8,764  |

Note: Negative generation denotes that electric power consumed for plant use exceeds gross generation. Totals may not equal sum of components because of independent rounding.

a. Less than 0.5 gigawatt-hours.

Source: U.S. Department of Energy, Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels, Electric Power Annual, <[http://www.eia.doe.gov/cneaf/electricity/epav1/epav1\\_sum.html](http://www.eia.doe.gov/cneaf/electricity/epav1/epav1_sum.html)> (Accessed 5 August 2002).

TABLE 10.7 — FUEL CONSUMPTION FOR ELECTRIC ENERGY, TENNESSEE, 1976—2000, SELECTED YEARS

| Year | Coal<br>(1,000<br>short tons) | Petroleum<br>(1,000<br>barrels) | Gas<br>(million<br>cu. ft.) |
|------|-------------------------------|---------------------------------|-----------------------------|
| 2000 | 25,401                        | 1,059                           | 1,829                       |
| 1999 | 23,216                        | 1,042                           | 3,453                       |
| 1998 | 23,321                        | 1,448                           | 6,213                       |
| 1997 | 24,464                        | 375                             | 1,636                       |
| 1994 | 21,253                        | 519                             | 1,019                       |
| 1993 | 23,801                        | 413                             | 1,531                       |
| 1991 | 19,216                        | 272                             | 211                         |
| 1990 | 20,814                        | 232                             | 565                         |
| 1989 | 19,283                        | 356                             | 18                          |
| 1988 | 21,010                        | 365                             | 225                         |
| 1987 | 20,697                        | 222                             | 0                           |
| 1986 | 21,051                        | 232                             | 0                           |
| 1985 | 20,853                        | 237                             | 0                           |
| 1984 | 19,106                        | 207                             | 0                           |
| 1983 | 18,672                        | 291                             | 107                         |
| 1982 | 16,532                        | 287                             | 0                           |
| 1981 | 20,497                        | 322                             | 316                         |
| 1980 | 21,679                        | 406                             | 1,105                       |
| 1979 | 20,173                        | 700                             | 0                           |
| 1978 | 21,621                        | 5,177                           | 0                           |
| 1977 | 21,694                        | 3,739                           | 0                           |
| 1976 | 22,362                        | 2,486                           | 176                         |

Source: U.S. Department of Energy, Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels, Electric Power Annual, 2000, <[http://www.eia.doe.gov/cneaf/electricity/epav1/epav1\\_sum.html](http://www.eia.doe.gov/cneaf/electricity/epav1/epav1_sum.html)> (Accessed 12 August 2002).

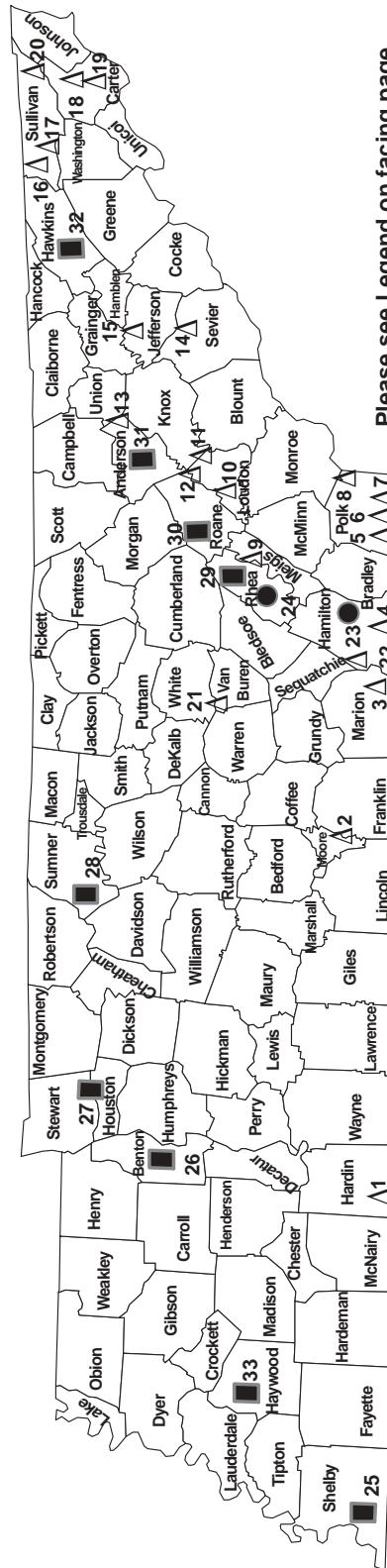
TABLE 10.8 — AVERAGE FUEL COSTS AT ELECTRIC UTILITIES, TENNESSEE, 1980—2000, SELECTED YEARS

| Year | Coal                  |            | Petroleum             |            |
|------|-----------------------|------------|-----------------------|------------|
|      | Cents per million BTU | \$ per ton | Cents per million BTU | \$ per ton |
| 2000 | 110.6                 | \$25.73    | 635.2                 | \$37.32    |
| 1999 | 113.1                 | 26.32      | 393.3                 | 23.11      |
| 1998 | 112.5                 | 26.39      | 304.5                 | 17.89      |
| 1997 | 112.5                 | 26.67      | 439.0                 | 25.80      |
| 1994 | 125.6                 | 30.61      | 414.9                 | 24.09      |
| 1993 | 126.1                 | 30.94      | 431.3                 | 25.06      |
| 1992 | 127.3                 | 31.01      | 480.2                 | 27.93      |
| 1991 | 125.2                 | 30.48      | 498.3                 | 29.05      |
| 1990 | 134.2                 | 32.12      | 560.8                 | 32.70      |
| 1989 | 134.3                 | 31.94      | 394.7                 | 22.92      |
| 1988 | 133.5                 | 32.17      | 350.9                 | 20.39      |
| 1987 | 136.7                 | 32.74      | 392.8                 | 22.82      |
| 1986 | 141.9                 | 33.79      | 336.8                 | 19.57      |
| 1985 | 153.6                 | 36.34      | 585.1                 | 33.95      |
| 1984 | 162.2                 | 38.30      | 611.3                 | 35.58      |
| 1983 | 172.0                 | 40.51      | 650.2                 | 37.80      |
| 1982 | 174.5                 | 41.22      | 810.2                 | 47.15      |
| 1981 | 173.5                 | 40.29      | 823.7                 | 47.86      |
| 1980 | 155.7                 | 36.21      | 639.0                 | 37.28      |

Note: Data are for plants with a capacity of 50 megawatts or greater.

Source: U.S. Department of Energy, Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternative Fuels, Electric Power Annual, <[http://www.eia.doe.gov/cneaf/electricity/epav1/epav1\\_sum.html](http://www.eia.doe.gov/cneaf/electricity/epav1/epav1_sum.html)> (Accessed 12 August 2002).

FIGURE 10.2  
TVA Generating Plants in Tennessee



Please see Legend on facing page.

Legend for Figure 10.2

|     |   |           |  |           |
|-----|---|-----------|--|-----------|
| △   | TVA Hydro Plants  |           |  |           |
| 1.  | Pickford Landing  | 240,000   |  |           |
| 2.  | Tims Ford   | 45,000    |  |           |
| 3.  | Nickajack   | 104,000   |  |           |
| 4.  | Chickamauga   | 160,000   |  |           |
| 5.  | Ocoee 1   | 19,200    |  |           |
| 6.  | Ocoee 2   | 23,100    |  |           |
| 7.  | Ocoee 3   | 28,800    |  |           |
| 8.  | Appalachia  | 93,600    |  |           |
| 9.  | Watts Barr  | 175,000   |  |           |
| 10. | Tellico   | (a)       |  |           |
| 11. | Fort Loudon   | 145,000   |  |           |
| 12. | Melton Hill   | 60,000    |  |           |
| 13. | Norris  | 131,400   |  |           |
| 14. | Douglas   | 145,800   |  |           |
| 15. | Cherokee  | 135,200   |  |           |
| 16. | Ft. Patrick Henry   | 59,400    |  |           |
| 17. | Boone   | 97,000    |  |           |
| 18. | Wilbur  | 10,700    |  |           |
| 19. | Watauga   | 57,600    |  |           |
| 20. | South Holston   | 38,500    |  |           |
| 21. | Great Falls   | 33,800    |  |           |
| 22. | Raccoon Mtn. Pumped Storage Station                         | 1,530,000 |  |           |
| ●   | TVA Nuclear   |           |  |           |
| 23. | Sequoyah Nuclear  |           |  | 2,277,000 |
| 24. | Watts Barr Nuclear  |           |  | 1,158,000 |
| ■   | TVA Fossil Plants and Combustion turbine units <sup>1</sup> |           |  |           |
| 25. | Thomas H. Allen <sup>1</sup>                                |           |  | 753,000   |
| 26. | Johnsonville <sup>1</sup>                                   |           |  | 1,254,000 |
| 27. | Cumberland  |           |  | 2,546,000 |
| 28. | Gallatin <sup>1</sup>                                       |           |  | 988,000   |
| 29. | Watts Bar ("mothballed" in 1982)                            |           |  | 1,456,000 |
| 30. | Kingston  |           |  | 870,000   |
| 31. | Bull Run  |           |  | 712,000   |
| 32. | John Sevier   |           |  | 680,000   |
| 33. | Lagoon Creek <sup>1</sup>                                   |           |  |           |

Note: kW Capacity is the amount that is winter net dependable. Additional power facilities in Tennessee (non-TVA) include six Corps of Engineer dams located in the Nashville District and two Alcoa dams.

- a. Tellico Dam does not have generating capacity. Water from the Tellico River helps drive four generating units at Fort Loudon Dam.
- 1. Lagoon Creek, built in 2000, is a combustion turbine plant. In addition to Lagoon Creek, forty combustion turbine units have been added to fossil plants at Allen (20), Gallatin (4), and Johnsonville (16).

Source: Tennessee Valley Authority, <<http://www.tva.gov/power>> (Accessed 12 January 2003).

TABLE 10.9 — ELECTRICITY SALES STATISTICS, TVA, SEPTEMBER 30, 1995—2001, SELECTED YEARS

|   | 2001      | 2000      | 1999      | 1995      |
|---|-----------|-----------|-----------|-----------|
| Total sales (millions of kilowatt-hours) <sup>1</sup>       | 161,421   | 159,571   | 155,955   | 139,285   |
| Municipalities and cooperatives                             | 129,760   | 125,991   | 122,880   | 110,245   |
| Industries directly served                                  | 23,306    | 22,204    | 22,885    | 16,684    |
| Federal agencies and other                                  | 8,355     | 11,376    | 10,190    | 12,356    |
| Total operating revenues (millions of dollars) <sup>1</sup> | 6,999     | 6,762     | 6,595     | 5,473     |
| Electric  |           |           |           |           |
| Municipalities and cooperatives                             | 5,908     | 5,676     | 5,510     | 4,654     |
| Industries directly served                                  | 659       | 626       | 642       | 460       |
| Federal agencies and other                                  | 330       | 361       | 357       | 277       |
| Other   | 102       | 99        | 86        | 82        |
| Electric revenue per kilowatt-hour (cents)                  | 4.27      | 4.18      | 4.17      | 3.87      |
| Winter net dependable generating capacity (megawatts)       | 30,365    | 29,469    | 28,502    | 25,831    |
| Hydro <sup>2</sup>  | 5,677     | 5,544     | 5,492     | 5,225     |
| Fossil  | 15,050    | 15,042    | 15,049    | 15,032    |
| Nuclear units in service                                    | 5,715     | 5,729     | 5,729     | 3,342     |
| Combustion turbine  | 3,923     | 3,154     | 2,232     | 2,232     |
| System peak load (megawatts)--summer                        | 27,368    | 29,344    | 28,295    | 25,496    |
| System peak load (megawatts)--winter                        | 27,163    | 25,940    | 26,388    | 24,676    |
| Gross generation of electricity                             | 100       | 100       | 100       | 100       |
| Fossil (percent)  | 64        | 63        | 63        | 71        |
| Hydro (percent)   | 6         | 6         | 7         | 12        |
| Nuclear (percent)   | 29        | 31        | 30        | 17        |
| Fuel cost per kilowatt-hour (cents)                         |           |           |           |           |
| Fossil  | 1.32      | 1.27      | 1.28      | 1.26      |
| Combustion turbine  | 6.07      | 6.22      | 3.94      | 3.61      |
| Nuclear <sup>3</sup>  | 0.44      | 0.49      | 0.51      | 0.61      |
| Aggregate fuel cost per kWh net thermal generation          | 1.08      | 1.05      | 1.05      | 1.14      |
| Fuel data   |           |           |           |           |
| Net thermal generation (millions of kilowatt-hours)         | 146,806   | 143,224   | 137,169   | 118,097   |
| Billion BTU   | 1,505,504 | 1,470,452 | 1,403,110 | 1,197,295 |
| Fuel expense (millions of dollars)                          | 1,588     | 1,504     | 1,434     | 1,348     |
| Cost per million BTU (cents)                                | 105       | 102       | 102       | 113       |
| Net heat rate, fossil only                                  | 10,255    | 10,267    | 10,229    | 10,138    |

1. Sales have been adjusted to include sales to other utilities.
2. Includes 405 megawatts of dependable capacity from the Corps of Engineers projects on the Cumberland River System.
3. TVA changed its method of expensing the interest component of nuclear fuel expense in 1995.

Source: Tennessee Valley Authority, Annual Report, 2001, <<http://www.tva.gov/finance/reports/index.htm>> (Accessed 18 December 2002).

TABLE 10.10—ELECTRICITY SALES STATISTICS, TENNESSEE, 2000

| Distributor    | All service classes           |                                   | Residential service    |                               |                                   |
|----------------|-------------------------------|-----------------------------------|------------------------|-------------------------------|-----------------------------------|
|                | Total sales<br>(1,000<br>kWh) | Average<br>revenue<br>(cents/kWh) | Number of<br>consumers | Total sales<br>(1,000<br>kWh) | Average<br>revenue<br>(cents/kWh) |
| Cities         |                               |                                   |                        |                               |                                   |
| Alcoa          | 532,131                       | 6.18                              | 20,006                 | 311,116                       | 6.17                              |
| Athens         | 602,805                       | 5.39                              | 10,334                 | 144,452                       | 6.45                              |
| Bolivar        | 246,207                       | 6.73                              | 9,006                  | 139,558                       | 6.66                              |
| Bristol        | 891,035                       | 5.46                              | 26,971                 | 438,025                       | 5.67                              |
| Brownsville    | 219,967                       | 5.24                              | 4,307                  | 60,595                        | 5.89                              |
| Chattanooga    | 4,889,821                     | 5.65                              | 104,992                | 1,645,310                     | 6.40                              |
| Clarksville    | 1,116,155                     | 5.95                              | 37,778                 | 573,910                       | 6.11                              |
| Cleveland      | 1,038,328                     | 5.56                              | 23,230                 | 350,402                       | 6.08                              |
| Clinton        | 745,500                       | 5.86                              | 24,489                 | 377,117                       | 6.25                              |
| Columbia       | 589,847                       | 6.05                              | 18,723                 | 280,676                       | 6.15                              |
| Cookeville     | 546,995                       | 5.90                              | 10,486                 | 135,538                       | 6.38                              |
| Covington      | 295,658                       | 5.21                              | 3,382                  | 46,949                        | 6.03                              |
| Dayton         | 230,886                       | 6.08                              | 7,122                  | 89,289                        | 6.45                              |
| Dickson        | 797,981                       | 6.00                              | 24,522                 | 386,214                       | 6.41                              |
| Dyersburg      | 689,322                       | 5.12                              | 9,805                  | 138,256                       | 6.24                              |
| Elizabethton   | 540,428                       | 6.31                              | 20,961                 | 307,345                       | 6.40                              |
| Erwin          | 245,828                       | 5.61                              | 7,416                  | 92,748                        | 6.23                              |
| Etowah         | 157,246                       | 5.42                              | 4,292                  | 58,843                        | 6.45                              |
| Fayetteville   | 416,728                       | 6.49                              | 13,981                 | 203,394                       | 6.96                              |
| Gallatin       | 718,178                       | 4.87                              | 9,183                  | 142,554                       | 5.69                              |
| Greeneville    | 1,094,876                     | 5.49                              | 28,409                 | 438,587                       | 6.05                              |
| Harriman       | 262,966                       | 6.29                              | 9,670                  | 133,941                       | 6.72                              |
| Humboldt       | 245,533                       | 5.26                              | 3,816                  | 53,562                        | 6.01                              |
| Jackson        | 1,908,375                     | 5.27                              | 26,111                 | 468,622                       | 6.18                              |
| Jellico        | 50,042                        | 7.03                              | 2,063                  | 27,103                        | 6.94                              |
| Johnson City   | 1,797,167                     | 6.16                              | 55,744                 | 832,689                       | 6.38                              |
| Knoxville      | 5,291,547                     | 5.85                              | 154,842                | 2,277,205                     | 6.24                              |
| LaFollette     | 344,293                       | 6.87                              | 15,851                 | 213,626                       | 6.70                              |
| Lawrenceburg   | 487,727                       | 6.37                              | 15,943                 | 231,113                       | 6.60                              |
| Lebanon        | 398,375                       | 5.82                              | 7,027                  | 100,739                       | 6.35                              |
| Lenoir City    | 1,362,928                     | 6.04                              | 38,949                 | 675,576                       | 6.18                              |
| Lewisburg      | 321,861                       | 5.41                              | 4,090                  | 57,978                        | 6.15                              |
| Lexington      | 462,977                       | 6.27                              | 16,925                 | 218,579                       | 6.34                              |
| Loudon         | 409,540                       | 5.60                              | 7,300                  | 109,001                       | 6.74                              |
| McMinnville    | 249,417                       | 6.03                              | 5,841                  | 76,113                        | 6.24                              |
| Maryville      | 658,213                       | 5.54                              | 15,684                 | 219,222                       | 6.16                              |
| Memphis        | 14,245,801                    | 5.80                              | 347,938                | 5,433,909                     | 6.36                              |
| Milan          | 263,258                       | 6.00                              | 6,439                  | 103,478                       | 6.41                              |
| Morristown     | 862,115                       | 5.36                              | 10,965                 | 149,597                       | 6.13                              |
| Mount Pleasant | 99,711                        | 6.21                              | 3,135                  | 46,247                        | 6.41                              |
| Murfreesboro   | 1,133,026                     | 5.72                              | 29,227                 | 413,829                       | 6.03                              |
| Nashville      | 11,976,646                    | 5.71                              | 280,975                | 4,390,894                     | 6.30                              |
| Newbern        | 101,975                       | 5.24                              | 1,391                  | 18,851                        | 6.29                              |
| Newport        | 501,379                       | 6.11                              | 15,770                 | 217,768                       | 6.72                              |
| Oak Ridge      | 502,046                       | 6.26                              | 12,654                 | 161,422                       | 6.67                              |
| Paris          | 484,147                       | 5.87                              | 15,253                 | 232,871                       | 5.98                              |
| Pulaski        | 474,448                       | 5.96                              | 11,176                 | 168,026                       | 6.70                              |
| Ripley         | 273,185                       | 5.56                              | 5,602                  | 76,400                        | 6.08                              |
| Rockwood       | 334,409                       | 6.19                              | 10,881                 | 166,335                       | 6.60                              |
| Shelbyville    | 373,449                       | 5.67                              | 6,820                  | 87,338                        | 6.36                              |

TABLE 10.10—ELECTRICITY SALES STATISTICS, TENNESSEE, 2000 (Continued)

| Distributor                | All service classes           |                                   | Residential service    |                               |                                   |
|----------------------------|-------------------------------|-----------------------------------|------------------------|-------------------------------|-----------------------------------|
|                            | Total sales<br>(1,000<br>kWh) | Average<br>revenue<br>(cents/kWh) | Number of<br>consumers | Total sales<br>(1,000<br>kWh) | Average<br>revenue<br>(cents/kWh) |
| Smithville                 | 109,416                       | 5.72                              | 1,934                  | 21,603                        | 6.24                              |
| Somerville                 | 37,678                        | 6.11                              | 1,120                  | 16,915                        | 6.06                              |
| Sparta                     | 108,632                       | 5.67                              | 1,999                  | 23,415                        | 6.21                              |
| Springfield                | 271,871                       | 5.70                              | 5,612                  | 81,130                        | 6.04                              |
| Sweetwater                 | 228,092                       | 5.91                              | 6,258                  | 95,902                        | 6.12                              |
| Trenton                    | 78,031                        | 6.20                              | 2,006                  | 26,700                        | 6.47                              |
| Tullahoma                  | 297,263                       | 5.96                              | 8,055                  | 118,039                       | 6.15                              |
| Union City                 | 460,582                       | 4.40                              | 5,252                  | 66,686                        | 5.93                              |
| Winchester                 | 179,108                       | 5.94                              | 4,080                  | 60,398                        | 6.21                              |
| Counties                   |                               |                                   |                        |                               |                                   |
| Benton County              | 245,996                       | 6.10                              | 8,326                  | 112,446                       | 6.75                              |
| Carroll County             | 417,351                       | 5.90                              | 12,684                 | 193,857                       | 6.28                              |
| Sevier County              | 1,179,695                     | 6.19                              | 32,304                 | 488,167                       | 6.28                              |
| Weakley County             | 511,288                       | 5.94                              | 16,574                 | 269,854                       | 6.07                              |
| Cooperatives               |                               |                                   |                        |                               |                                   |
| Appalachian                | 805,746                       | 6.37                              | 33,814                 | 535,055                       | 6.37                              |
| Caney Fork                 | 585,197                       | 6.52                              | 24,302                 | 348,475                       | 6.58                              |
| Chickasaw                  | 343,732                       | 5.67                              | 10,421                 | 191,425                       | 5.89                              |
| Cumberland                 | 1,939,811                     | 6.01                              | 63,511                 | 1,153,850                     | 6.57                              |
| Cumberland Valley          | 987                           | -6.00                             | 110                    | 987                           | -6.00                             |
| Duck River                 | 1,302,147                     | 6.61                              | 51,012                 | 847,994                       | 6.69                              |
| Forked Deer                | 199,178                       | 6.28                              | 8,164                  | 138,199                       | 6.48                              |
| Fort Loudoun               | 474,518                       | 6.71                              | 22,762                 | 352,268                       | 6.76                              |
| French Broad               | 8,354                         | 9.19                              | 851                    | 6,447                         | 9.62                              |
| Gibson County              | 740,740                       | 6.41                              | 27,627                 | 447,363                       | 6.44                              |
| Holston                    | 738,571                       | 5.72                              | 22,500                 | 326,377                       | 6.42                              |
| Meriwether Lewis           | 707,211                       | 6.67                              | 27,464                 | 378,245                       | 6.91                              |
| Middle Tennessee           | 3,678,915                     | 5.68                              | 111,835                | 2,000,067                     | 5.99                              |
| Mountain                   | 298,797                       | 5.85                              | 11,525                 | 126,423                       | 6.79                              |
| Pickwick                   | 413,319                       | 6.38                              | 15,355                 | 226,354                       | 6.35                              |
| Plateau                    | 302,093                       | 7.06                              | 13,012                 | 142,792                       | 7.17                              |
| Powell Valley, VA.         | 356,693                       | 6.81                              | 16,596                 | 212,499                       | 6.84                              |
| Sequachee Valley           | 687,249                       | 6.17                              | 26,109                 | 368,676                       | 6.14                              |
| South Kentucky Rural       | 1,980                         | 6.21                              | 155                    | 1,263                         | -6.00                             |
| Southwest Tennessee        | 916,527                       | 6.72                              | 36,880                 | 639,061                       | 6.67                              |
| Tennessee Valley           | 9,027,247                     | 3.14                              | 14,894                 | 198,378                       | 6.98                              |
| Tri-County                 | 457,267                       | 6.79                              | 19,415                 | 294,850                       | 6.54                              |
| Tri-State, GA.             | 45,264                        | 7.82                              | 2,497                  | 29,602                        | 7.71                              |
| Upper Cumberland           | 886,593                       | 6.82                              | 36,527                 | 531,104                       | 6.97                              |
| Volunteer                  | 1,997,337                     | 5.94                              | 82,686                 | 1,147,423                     | 6.48                              |
| Investor-Owned             |                               |                                   |                        |                               |                                   |
| Entergy Arkansas Inc       | 280                           | -6.00                             | 35                     | 220                           | -6.00                             |
| Kentucky Utilities Co      | 97                            | -6.00                             | 4                      | 97                            | -6.00                             |
| Kingsport Power Co         | 1,845,693                     | 4.39                              | 39,503                 | 678,627                       | 4.93                              |
| Tennessee Valley Authority | 9,027,247                     | 3.14                              | (X)                    | (X)                           | (X)                               |
| Tennessee Total            | 95,727,709                    | 5.58                              | 2,383,247              | 36,622,145                    | 6.33                              |

(X) not applicable.

Source: U.S. Department of Energy, Energy Information Administration, Electric Sales and Revenue, <[http://www.eia.doe.gov/electricity/esr/esr\\_sum.html](http://www.eia.doe.gov/electricity/esr/esr_sum.html)> (Accessed 12 August 2002).



TABLE 10.11—COMMERCIAL AND INDUSTRIAL ELECTRICITY SALES, TENNESSEE, 2000

| Distributor    | Commercial service  |                            |                                | Industrial service         |                                |
|----------------|---------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|
|                | Number of consumers | Total sales<br>(1,000 kWh) | Average revenue<br>(cents/kWh) | Total sales<br>(1,000 kWh) | Average revenue<br>(cents/kWh) |
| Cities         |                     |                            |                                |                            |                                |
| Alcoa          | 4,106               | 162,039                    | 6.36                           | 51,474                     | 5.32                           |
| Athens         | 2,216               | 158,412                    | 6.37                           | 293,373                    | 4.25                           |
| Bolivar        | 2,125               | 63,700                     | 7.15                           | 38,303                     | 5.82                           |
| Bristol        | 3,765               | 238,907                    | 5.71                           | 204,725                    | 4.57                           |
| Brownsville    | 897                 | 50,063                     | 5.95                           | 106,596                    | 4.47                           |
| Chattanooga    | 16,193              | 1,538,196                  | 6.24                           | 1,658,273                  | 4.29                           |
| Clarksville    | 5,134               | 349,462                    | 6.20                           | 177,476                    | 4.85                           |
| Cleveland      | 3,612               | 297,389                    | 6.11                           | 380,483                    | 4.58                           |
| Clinton        | 2,984               | 189,378                    | 6.27                           | 170,926                    | 4.34                           |
| Columbia       | 3,227               | 228,074                    | 6.30                           | 72,429                     | 4.69                           |
| Cookeville     | 2,735               | 217,073                    | 6.31                           | 184,750                    | 4.99                           |
| Covington      | 850                 | 68,837                     | 5.97                           | 177,013                    | 4.63                           |
| Dayton         | 1,677               | 81,246                     | 6.35                           | 57,401                     | 5.02                           |
| Dickson        | 4,231               | 206,936                    | 6.50                           | 196,399                    | 4.63                           |
| Dyersburg      | 2,118               | 121,370                    | 6.35                           | 421,420                    | 4.30                           |
| Elizabethton   | 3,732               | 153,671                    | 6.64                           | 71,493                     | 4.98                           |
| Erwin          | 1,170               | 57,447                     | 6.21                           | 93,347                     | 4.51                           |
| Etowah         | 622                 | 28,557                     | 6.51                           | 67,723                     | 3.91                           |
| Fayetteville   | 2,315               | 93,487                     | 7.40                           | 115,133                    | 4.76                           |
| Gallatin       | 1,722               | 152,160                    | 5.64                           | 417,868                    | 4.27                           |
| Greeneville    | 5,581               | 256,869                    | 6.15                           | 389,342                    | 4.31                           |
| Harriman       | 1,404               | 63,166                     | 7.18                           | 61,215                     | 4.08                           |
| Humboldt       | 854                 | 69,965                     | 5.60                           | 118,332                    | 4.63                           |
| Jackson        | 5,346               | 554,566                    | 6.06                           | 865,318                    | 4.15                           |
| Jellico        | 397                 | 21,586                     | 7.14                           | (X)                        | (X)                            |
| Johnson City   | 8,392               | 553,645                    | 6.39                           | 393,050                    | 5.19                           |
| Knoxville      | 19,990              | 1,665,033                  | 6.13                           | 1,290,722                  | 4.65                           |
| LaFollette     | 2,412               | 100,740                    | 7.13                           | 24,716                     | 6.82                           |
| Lawrenceburg   | 2,717               | 120,604                    | 7.22                           | 129,525                    | 5.06                           |
| Lebanon        | 1,770               | 167,366                    | 6.20                           | 120,529                    | 4.81                           |
| Lenoir City    | 7,251               | 477,519                    | 6.24                           | 198,410                    | 4.94                           |
| Lewisburg      | 1,233               | 80,405                     | 6.40                           | 179,353                    | 4.66                           |
| Lexington      | 3,478               | 123,927                    | 6.85                           | 110,021                    | 5.27                           |
| Loudon         | 1,214               | 74,290                     | 6.66                           | 223,158                    | 4.65                           |
| McMinnville    | 1,616               | 96,555                     | 6.49                           | 71,848                     | 5.01                           |
| Maryville      | 2,440               | 207,103                    | 6.11                           | 225,000                    | 4.27                           |
| Memphis        | 41,776              | 4,542,404                  | 6.21                           | 4,126,844                  | 4.50                           |
| Milan          | 1,376               | 59,420                     | 6.32                           | 96,957                     | 5.24                           |
| Morristown     | 2,712               | 285,496                    | 6.02                           | 417,648                    | 4.58                           |
| Mount Pleasant | 583                 | 41,100                     | 6.22                           | 11,027                     | 5.17                           |
| Murfreesboro   | 4,189               | 418,195                    | 5.84                           | 289,011                    | 5.02                           |
| Nashville      | 35,794              | 4,382,821                  | 5.95                           | 3,086,733                  | 4.40                           |
| Newbern        | 273                 | 11,886                     | 6.42                           | 70,189                     | 4.71                           |
| Newport        | 3,423               | 131,681                    | 6.76                           | 145,124                    | 4.46                           |
| Oak Ridge      | 1,898               | 238,564                    | 6.39                           | 95,430                     | 4.68                           |
| Paris          | 4,046               | 144,851                    | 6.28                           | 97,111                     | 4.63                           |
| Pulaski        | 2,275               | 102,890                    | 7.12                           | 197,541                    | 4.62                           |
| Ripley         | 1,296               | 69,626                     | 6.12                           | 121,528                    | 4.79                           |
| Rockwood       | 2,105               | 87,054                     | 6.67                           | 76,085                     | 4.53                           |
| Shelbyville    | 1,308               | 114,233                    | 6.28                           | 167,961                    | 4.82                           |

TABLE 10.11—COMMERCIAL AND INDUSTRIAL ELECTRICITY SALES, TENNESSEE, 2000  
(Continued)

| Distributor                | Commercial service  |                         |                             | Industrial service      |                             |
|----------------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|
|                            | Number of consumers | Total sales (1,000 kWh) | Average revenue (cents/kWh) | Total sales (1,000 kWh) | Average revenue (cents/kWh) |
| Smithville                 | 527                 | 38,191                  | 6.25                        | 48,185                  | 5.06                        |
| Somerville                 | 369                 | 19,573                  | 6.18                        | 35,293                  | 4.65                        |
| Sparta                     | 821                 | 47,701                  | 6.08                        | 94,896                  | 4.78                        |
| Springfield                | 1,119               | 90,766                  | 6.15                        | 65,690                  | 5.02                        |
| Sweetwater                 | 1,572               | 61,207                  | 6.36                        | (X)                     | (X)                         |
| Trenton                    | 599                 | 40,102                  | 6.44                        | 9,012                   | 3.93                        |
| Tullahoma                  | 1,637               | 149,458                 | 5.90                        | 24,962                  | 4.59                        |
| Union City                 | 1,059               | 78,150                  | 6.11                        | 311,551                 | 3.59                        |
| Winchester                 | 974                 | 81,693                  | 5.83                        | 34,783                  | 5.59                        |
| Counties                   |                     |                         |                             |                         |                             |
| Benton County              | 1,597               | 53,441                  | 7.16                        | 75,023                  | 4.18                        |
| Carroll County             | 2,788               | 107,398                 | 6.68                        | 107,624                 | 4.31                        |
| Sevier County              | 8,072               | 555,538                 | 6.38                        | 123,799                 | 4.90                        |
| Weakley County             | 3,437               | 152,045                 | 6.49                        | 80,094                  | 5.27                        |
| Cooperatives               |                     |                         |                             |                         |                             |
| Appalachian                | 5,063               | 180,558                 | 7.08                        | 79,396                  | 4.56                        |
| Caney Fork                 | 4,200               | 112,303                 | 7.64                        | 115,944                 | 5.07                        |
| Chickasaw                  | 1,967               | 73,128                  | 6.16                        | 75,410                  | 4.52                        |
| Cumberland                 | 9,945               | 376,837                 | 6.71                        | 386,144                 | 3.42                        |
| Duck River                 | 8,658               | 316,342                 | 7.12                        | 123,865                 | 4.67                        |
| Forked Deer                | 1,333               | 12,584                  | 8.84                        | 44,112                  | 4.71                        |
| Fort Loudoun               | 2,615               | 85,924                  | 6.91                        | 28,782                  | 4.96                        |
| French Broad               | 19                  | 177                     | -6.00                       | 1,591                   | 7.48                        |
| Gibson County              | 5,406               | 148,601                 | 7.09                        | 132,605                 | 5.15                        |
| Holston                    | 4,028               | 106,332                 | 6.85                        | 295,863                 | 4.42                        |
| Meriwether Lewis           | 5,086               | 177,743                 | 7.61                        | 137,773                 | 4.73                        |
| Middle Tennessee           | 14,691              | 952,313                 | 5.96                        | 696,084                 | 4.27                        |
| Mountain                   | 1,958               | 54,893                  | 7.31                        | 112,989                 | 3.96                        |
| Pickwick                   | 3,578               | 125,736                 | 6.79                        | 51,809                  | 5.27                        |
| Plateau                    | 2,373               | 91,280                  | 7.55                        | 60,014                  | 5.87                        |
| Powell Valley, VA.         | 2,570               | 98,294                  | 7.29                        | 37,042                  | 5.26                        |
| Sequachee Valley           | 4,493               | 192,153                 | 6.60                        | 115,458                 | 5.40                        |
| South Kentucky Rural       | 26                  | 701                     | -6.00                       | (X)                     | (X)                         |
| Southwest Tennessee        | 6,634               | 165,921                 | 7.49                        | 92,991                  | 5.40                        |
| Tennessee Valley           | 3,232               | 118,242                 | 7.48                        | 33,395                  | 6.36                        |
| Tri-County                 | 3,966               | 148,496                 | 7.13                        | 3,847                   | 6.47                        |
| Tri-State, GA.             | 405                 | 14,972                  | 7.91                        | (X)                     | (X)                         |
| Upper Cumberland           | 5,996               | 198,229                 | 7.58                        | 145,796                 | 4.89                        |
| Volunteer                  | 13,500              | 441,195                 | 6.90                        | 381,812                 | 2.98                        |
| Investor-Owned             |                     |                         |                             |                         |                             |
| Entergy Arkansas Inc       | 6                   | 39                      | -6.00                       | 21                      | -6.00                       |
| Kingsport Power Co         | 4,857               | 368,293                 | 5.02                        | 750,809                 | 3.46                        |
| Tennessee Valley Authority | (X)                 | (X)                     | (X)                         | 9,018,272               | 3.14                        |
| Tennessee Total            | 375,756             | 25,756,513              | 6.28                        | 32,289,069              | 4.09                        |

(X) not applicable.

Source: U.S. Department of Energy, Energy Information Administration, Electric Sales and Revenue, <[http://www.eia.doe.gov/electricity/esr/esr\\_sum.html](http://www.eia.doe.gov/electricity/esr/esr_sum.html)> (Accessed 12 August 2002).

TABLE 10.12—CAPACITY AND INVESTMENT STATUS OF TENNESSEE VALLEY AUTHORITY'S NUCLEAR PLANTS, 2001

| Unit          | Operating units | Installed capacity (megawatts) | Completed plant, net (millions) | Construction in progress (millions) | Deferred (millions) | Fuel investment (millions) |
|---------------|-----------------|--------------------------------|---------------------------------|-------------------------------------|---------------------|----------------------------|
| Browns Ferry  | 2               | 2,380                          | \$2,800                         | \$39                                | \$(X)               | \$149                      |
| Sequoyah      | 2               | 2,442                          | 1,846                           | 77                                  | (X)                 | 102                        |
| Watts Bar 1   | 1               | 1,270                          | 6,076                           | 7                                   | (X)                 | 44                         |
| Bellefonte    | (X)             | (X)                            | (X)                             | (X)                                 | 4,110               | (X)                        |
| Raw materials | (X)             | (X)                            | (X)                             | (X)                                 | (X)                 | 20                         |
| Total         | 5               | 6,092                          | 10,722                          | 123                                 | 4,110               | 315                        |

Note: Browns Ferry 1 is in inoperative status. Three units, Bellefonte 1 and 2 and Watts Bar 2 are in deferred status.

(X) not applicable.

Source: Tennessee Valley Authority, Annual Report, 2001, <<http://www.tva.gov/finance/reports/index.htm>> (Accessed 18 December 2002).

TABLE 10.13—FUEL COSTS AT ELECTRIC UTILITIES, SOUTHEASTERN STATES AND UNITED STATES, 2000

| State          | Coal <sup>1</sup>     |                 | Petroleum             |                    | Gas                   |                                |
|----------------|-----------------------|-----------------|-----------------------|--------------------|-----------------------|--------------------------------|
|                | Cents per million BTU | Dollars per ton | Cents per million BTU | Dollars per barrel | Cents per million BTU | Dollars per million cubic foot |
| TENNESSEE      | 110.6                 | \$25.73         | 635.2                 | \$37.32            | (X)                   | \$(X)                          |
| Alabama        | 142.1                 | 24.68           | 465.7                 | 27.48              | 437.5                 | 4.46                           |
| Arkansas       | 141.0                 | 30.88           | 651.7                 | 37.61              | 437.5                 | 4.52                           |
| Florida        | 156.9                 | 38.69           | 430.5                 | 27.56              | 433.8                 | 4.50                           |
| Georgia        | 154.2                 | 35.65           | 690.6                 | 40.17              | 417.6                 | 4.31                           |
| Kentucky       | 102.3                 | 23.74           | 680.8                 | 39.90              | 495.8                 | 5.08                           |
| Louisiana      | 132.0                 | 20.94           | 459.2                 | 28.90              | 439.6                 | 4.55                           |
| Mississippi    | 152.2                 | 35.16           | 333.3                 | 21.78              | 390.1                 | 4.01                           |
| North Carolina | 142.7                 | 35.53           | 615.6                 | 35.77              | 432.2                 | 4.43                           |
| South Carolina | 139.0                 | 35.37           | 672.3                 | 39.04              | 556.9                 | 5.72                           |
| Virginia       | 133.0                 | 34.09           | 423.9                 | 26.88              | 451.2                 | 4.66                           |
| West Virginia  | 120.4                 | 29.57           | 721.3                 | 42.21              | 498.1                 | 4.98                           |
| UNITED STATES  | 120.0                 | 24.28           | 445.0                 | 28.24              | 430.2                 | 4.39                           |

Note: Data are for plants with a capacity of 50 megawatts or greater.

(X) Not applicable.

1. Some coal delivered to Alabama, Florida, Kentucky, and Tennessee is reported as delivered to storage facilities. The cost does not include transportation costs incurred later in transporting the coal to the plant.

Source: U.S. Department of Energy, Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, Electric Power Annual, <[http://eia.doe.gov/cneaf/electricity/epav1/epav1\\_sum.html](http://eia.doe.gov/cneaf/electricity/epav1/epav1_sum.html)> (Accessed 10 August 2002).

TABLE 10.14—ENERGY CONSUMPTION, BY SOURCE, SOUTHEASTERN STATES, 1980 AND 1999 [In trillions of BTU]

| State          | Total   |         | Coal  |       | Natural gas <sup>1</sup> |         | Petroleum |         | Nuclear |       | Hydroelectric <sup>2</sup> |      |
|----------------|---------|---------|-------|-------|--------------------------|---------|-----------|---------|---------|-------|----------------------------|------|
|                | 1999    | 1980    | 1999  | 1980  | 1999                     | 1980    | 1999      | 1980    | 1999    | 1980  | 1999                       | 1980 |
| TENNESSEE      | 2,070.5 | 1,753.7 | 625.8 | 576.9 | 285.8                    | 233.3   | 712.7     | 529.7   | 289.2   | 5.7   | 74.0                       | 91.0 |
| Percent        | 100.0   | 100.0   | 30.2  | 32.9  | 13.8                     | 13.3    | 34.4      | 30.2    | 14.0    | 0.3   | 3.6                        | 5.2  |
| Alabama        | 2,004.8 | 1,651.4 | 855.4 | 661.0 | 344.5                    | 278.4   | 550.9     | 457.9   | 328.2   | 256.3 | 80.3                       | 97.7 |
| Percent        | 100.0   | 100.0   | 42.7  | 40.0  | 17.2                     | 16.9    | 27.5      | 27.7    | 16.4    | 15.5  | 4.0                        | 5.9  |
| Arkansas       | 1,203.7 | 877.9   | 266.9 | 36.6  | 265.5                    | 274.0   | 384.1     | 311.3   | 137.2   | 85.4  | 27.9                       | 17.6 |
| Percent        | 100.0   | 100.0   | 22.2  | 4.2   | 22.1                     | 31.2    | 31.9      | 35.5    | 11.4    | 9.7   | 2.3                        | 2.0  |
| Florida        | 3,852.9 | 2,518.2 | 671.6 | 225.5 | 541.7                    | 329.6   | 1,912.0   | 1,661.9 | 334.9   | 182.6 | 1.5                        | 2.2  |
| Percent        | 100.0   | 100.0   | 17.4  | 9.0   | 14.1                     | 13.1    | 49.6      | 66.0    | 8.7     | 7.3   | 0.0                        | 0.1  |
| Georgia        | 2,798.1 | 1,731.2 | 789.6 | 521.5 | 340.6                    | 325.3   | 1,044.4   | 707.3   | 334.0   | 92.0  | 28.0                       | 45.9 |
| Percent        | 100.0   | 100.0   | 28.2  | 30.1  | 12.2                     | 18.8    | 37.3      | 40.9    | 11.9    | 5.3   | 1.0                        | 2.7  |
| Kentucky       | 1,830.2 | 1,402.6 | 885.1 | 641.7 | 220.1                    | 204.1   | 726.1     | 516.3   | 0.0     | 0.0   | 26.5                       | 30.5 |
| Percent        | 100.0   | 100.0   | 48.4  | 45.8  | 12.0                     | 14.6    | 39.7      | 36.8    | 0.0     | 0.0   | 1.4                        | 2.2  |
| Louisiana      | 3,615.4 | 3,651.3 | 227.8 | 2.5   | 1,558.0                  | 1,862.2 | 1,452.0   | 1,589.0 | 139.3   | 0.0   | 8.3                        | 0.0  |
| Percent        | 100.0   | 100.0   | 6.3   | 0.1   | 43.1                     | 51.0    | 40.2      | 43.5    | 3.9     | 0.0   | 0.2                        | 0.0  |
| Mississippi    | 1,208.5 | 832.4   | 137.7 | 75.0  | 346.2                    | 270.9   | 483.3     | 382.6   | 89.5    | 0.0   | 0.1                        | 0.0  |
| Percent        | 100.0   | 100.0   | 11.4  | 9.0   | 28.6                     | 32.5    | 40.0      | 46.0    | 7.4     | 0.0   | 0.0                        | 0.0  |
| North Carolina | 2,446.9 | 1,675.7 | 707.7 | 624.7 | 228.6                    | 155.2   | 937.2     | 667.9   | 398.6   | 63.0  | 39.9                       | 57.0 |
| Percent        | 100.0   | 100.0   | 28.9  | 37.3  | 9.3                      | 9.3     | 38.3      | 39.9    | 16.3    | 3.8   | 1.6                        | 3.4  |
| South Carolina | 1,493.0 | 1,012.6 | 402.6 | 245.8 | 162.5                    | 146.9   | 466.9     | 365.8   | 539.8   | 189.8 | 7.1                        | 31.4 |
| Percent        | 100.0   | 100.0   | 27.0  | 24.3  | 10.9                     | 14.5    | 31.3      | 36.1    | 36.2    | 18.7  | 0.5                        | 3.1  |
| Virginia       | 2,227.3 | 1,571.0 | 401.6 | 231.8 | 275.2                    | 161.0   | 864.3     | 779.4   | 300.6   | 125.1 | -5.6                       | 9.3  |
| Percent        | 100.0   | 100.0   | 18.0  | 14.8  | 12.4                     | 10.2    | 38.8      | 49.6    | 13.5    | 8.0   | -0.3                       | 0.6  |
| West Virginia  | 735.4   | 881.9   | 976.6 | 857.8 | 147.4                    | 147.6   | 219.5     | 311.5   | 0.0     | 0.0   | 9.6                        | 11.6 |
| Percent        | 100.0   | 100.0   | 132.8 | 97.3  | 20.0                     | 16.7    | 29.8      | 35.3    | 0.0     | 0.0   | 1.3                        | 1.3  |

Note: Total includes net interstate sales of electricity not shown separately. A negative figure for net interstate sales of electricity will account for the sum of individual percentages being greater than 100 percent; while a positive figure will result in a sum less than 100 percent. Percentages were computed by the Center for Business and Economic Research.

1. Includes supplemental gaseous fuels.

2. Includes industrial and utility production, and net imports of electricity.

Source: U.S. Department of Energy, Energy Information Administration, Office of Energy Markets and End Use, State Energy Data Report, <<http://www.eia.doe.gov/emeu/sep/states.html>> (Accessed 5 August 2002).

TABLE 10.15—NET ELECTRIC ENERGY GENERATION, UTILITIES, BY ENERGY SOURCE, SOUTHEASTERN STATES, 2000 [In gigawatt-hours]

| State          | Total   | Coal   | Petroleum | Gas    | Nuclear | Hydro-electric |
|----------------|---------|--------|-----------|--------|---------|----------------|
| TENNESSEE      | 92,314  | 60,677 | 540       | 127    | 25,825  | 5,145          |
| Alabama        | 118,040 | 76,934 | 241       | 3,680  | 31,369  | 5,818          |
| Arkansas       | 41,489  | 24,076 | 207       | 3,184  | 11,652  | 2,370          |
| Florida        | 169,890 | 67,145 | 34,336    | 36,003 | 32,291  | 87             |
| Georgia        | 116,180 | 79,010 | 641       | 1,755  | 32,473  | 2,301          |
| Kentucky       | 81,351  | 78,600 | 119       | 308    | 0       | 2,325          |
| Louisiana      | 57,597  | 14,481 | 625       | 26,696 | 15,796  | 0              |
| Mississippi    | 33,896  | 13,879 | 2,969     | 6,354  | 10,695  | 0              |
| North Carolina | 114,435 | 71,722 | 469       | 839    | 39,127  | 2,279          |
| South Carolina | 90,424  | 38,667 | 266       | 188    | 50,888  | 416            |
| Virginia       | 65,844  | 33,965 | 2,408     | 1,840  | 28,321  | -690           |
| West Virginia  | 89,708  | 89,059 | 254       | 42     | 0       | 338            |

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

Source: U.S. Department of Energy, Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels, Electric Power Annual, <[http://www.eia.doe.gov/cneaf/electricity/epav1/epav\\_sum.html](http://www.eia.doe.gov/cneaf/electricity/epav1/epav_sum.html)> (Accessed 15 August 2002).

TABLE 10.16—FUEL CONSUMPTION FOR ELECTRIC ENERGY, SOUTHEASTERN STATES AND UNITED STATES, 2000

| State          | Coal<br>(1,000<br>short tons) | Petroleum<br>(1,000<br>barrels) | Gas<br>(million<br>cubic feet) |
|----------------|-------------------------------|---------------------------------|--------------------------------|
| TENNESSEE      | 25,401                        | 1,059                           | 1,829                          |
| Alabama        | 35,482                        | 468                             | 36,344                         |
| Arkansas       | 14,868                        | 360                             | 34,603                         |
| Florida        | 27,534                        | 53,523                          | 316,486                        |
| Georgia        | 33,151                        | 1,397                           | 21,447                         |
| Kentucky       | 35,031                        | 261                             | 4,073                          |
| Louisiana      | 9,959                         | 1,021                           | 292,002                        |
| Mississippi    | 6,232                         | 4,583                           | 89,110                         |
| North Carolina | 27,925                        | 1,005                           | 9,579                          |
| South Carolina | 15,034                        | 716                             | 2,814                          |
| Virginia       | 13,524                        | 3,847                           | 15,923                         |
| West Virginia  | 35,651                        | 448                             | 425                            |
| UNITED STATES  | 859,335                       | 120,129                         | 3,043,094                      |

Source: U.S. Department of Energy, Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels, Electric Power Annual, <[http://www.eia.doe.gov/cneaf/electricity/epav1/epav\\_sum.html](http://www.eia.doe.gov/cneaf/electricity/epav1/epav_sum.html)> (Accessed 15 August 2002).

TABLE 10.17—SALES OF ELECTRIC ENERGY TO ULTIMATE CUSTOMERS, BY CLASS OF SERVICE, 2000, AND TOTAL SALES, 1980 — 2000, SELECTED YEARS, SOUTHEASTERN STATES [In gigawatt-hours]

| State          | Class of service, 2000 |             |            |            |                    |
|----------------|------------------------|-------------|------------|------------|--------------------|
|                | Total                  | Residential | Commercial | Industrial | Other <sup>1</sup> |
| TENNESSEE      | 95,728                 | 36,622      | 25,757     | 32,289     | 1,060              |
| Alabama        | 83,524                 | 28,756      | 19,057     | 35,034     | 677                |
| Arkansas       | 41,611                 | 14,871      | 8,746      | 17,268     | 726                |
| Florida        | 195,843                | 99,006      | 72,130     | 18,884     | 5,824              |
| Georgia        | 119,185                | 44,560      | 36,951     | 36,085     | 1,589              |
| Kentucky       | 78,316                 | 23,374      | 13,933     | 37,689     | 3,320              |
| Louisiana      | 80,690                 | 27,719      | 18,225     | 31,950     | 2,795              |
| Mississippi    | 45,336                 | 17,193      | 11,451     | 15,856     | 836                |
| North Carolina | 119,855                | 46,537      | 36,859     | 34,252     | 2,208              |
| South Carolina | 77,012                 | 25,270      | 17,483     | 33,308     | 951                |
| Virginia       | 96,715                 | 37,541      | 28,299     | 20,619     | 10,256             |
| West Virginia  | 27,693                 | 9,738       | 6,796      | 11,083     | 76                 |

|                | Total sales |         |         |         |        |
|----------------|-------------|---------|---------|---------|--------|
|                | 2000        | 1999    | 1998    | 1985    | 1980   |
| TENNESSEE      | 95,728      | 93,180  | 90,591  | 68,457  | 73,391 |
| Alabama        | 83,524      | 80,401  | 77,866  | 49,662  | 50,367 |
| Arkansas       | 41,611      | 39,789  | 39,034  | 23,064  | 26,499 |
| Florida        | 195,843     | 187,270 | 186,905 | 108,665 | 90,766 |
| Georgia        | 119,185     | 112,656 | 108,445 | 59,972  | 51,209 |
| Kentucky       | 78,316      | 79,098  | 73,994  | 39,325  | 49,787 |
| Louisiana      | 80,690      | 78,267  | 77,103  | 58,809  | 52,877 |
| Mississippi    | 45,336      | 43,980  | 41,480  | 25,725  | 23,258 |
| North Carolina | 119,855     | 115,015 | 113,353 | 70,959  | 58,737 |
| South Carolina | 77,012      | 73,304  | 72,431  | 42,507  | 37,264 |
| Virginia       | 96,715      | 93,032  | 89,935  | 58,513  | 48,369 |
| West Virginia  | 27,693      | 27,144  | 26,539  | 21,844  | 20,831 |

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

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

Source: U.S. Department of Energy, Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels, Electric Power Annual, <[http://www.eia.doe.gov/cneaf/epav1/epav\\_sum.html](http://www.eia.doe.gov/cneaf/epav1/epav_sum.html)> (Accessed 15 August 2002).

TABLE 10.18—AVERAGE REVENUE PER KILOWATT-HOUR, BY SECTOR, SOUTHEASTERN STATES AND UNITED STATES, 1993, 1998 AND 2000 [In cents per kilowatt-hour]

| State          | Total |      |      | Residential |      |      | Commercial |      |      | Industrial |      |      | Other <sup>1</sup> |      |      |
|----------------|-------|------|------|-------------|------|------|------------|------|------|------------|------|------|--------------------|------|------|
|                | 2000  | 1998 | 1993 | 2000        | 1998 | 1993 | 2000       | 1998 | 1993 | 2000       | 1998 | 1993 | 2000               | 1998 | 1993 |
| TENNESSEE      | 5.6   | 5.6  | 5.2  | 6.3         | 6.3  | 5.8  | 6.3        | 6.4  | 6.1  | 4.1        | 4.6  | 4.3  | 8.8                | 8.3  | 7.1  |
| Alabama        | 5.6   | 5.5  | 5.7  | 7.1         | 7.0  | 6.8  | 6.6        | 6.6  | 6.9  | 3.9        | 4.0  | 4.3  | 7.1                | 7.5  | 5.9  |
| Arkansas       | 5.8   | 5.6  | 6.8  | 7.5         | 7.3  | 8.3  | 5.9        | 5.7  | 7.0  | 4.2        | 3.9  | 5.1  | 6.4                | 6.5  | 7.0  |
| Florida        | 6.9   | 7.1  | 7.2  | 7.8         | 8.0  | 8.0  | 6.3        | 6.4  | 6.7  | 4.8        | 5.0  | 5.2  | 7.0                | 6.8  | 6.7  |
| Georgia        | 6.2   | 6.4  | 6.7  | 7.6         | 7.7  | 7.8  | 6.5        | 7.0  | 7.4  | 4.1        | 4.3  | 4.7  | 8.5                | 8.5  | 8.8  |
| Kentucky       | 4.2   | 4.2  | 4.3  | 5.5         | 5.7  | 5.7  | 5.1        | 5.2  | 5.3  | 3.0        | 3.0  | 3.3  | 4.4                | 4.7  | 4.6  |
| Louisiana      | 6.5   | 5.8  | 6.3  | 7.7         | 7.2  | 7.8  | 7.2        | 6.5  | 7.5  | 5.0        | 4.2  | 4.5  | 7.0                | 6.2  | 7.3  |
| Mississippi    | 5.9   | 5.9  | 6.2  | 6.9         | 7.0  | 7.2  | 6.4        | 6.5  | 7.4  | 4.1        | 4.2  | 4.6  | 8.3                | 8.2  | 8.9  |
| North Carolina | 6.5   | 6.5  | 6.6  | 8.0         | 8.1  | 8.1  | 6.4        | 6.4  | 6.6  | 4.6        | 4.7  | 4.8  | 6.5                | 7.1  | 7.0  |
| South Carolina | 5.6   | 5.6  | 5.6  | 7.6         | 7.5  | 7.3  | 6.4        | 6.3  | 6.2  | 3.7        | 3.7  | 4.1  | 6.3                | 5.9  | 5.7  |
| Virginia       | 5.9   | 5.9  | 6.4  | 7.5         | 7.5  | 8.0  | 5.7        | 5.6  | 6.1  | 3.9        | 3.8  | 4.2  | 5.1                | 5.0  | 5.6  |
| West Virginia  | 5.1   | 5.1  | 5.2  | 6.3         | 6.3  | 6.3  | 5.5        | 5.5  | 5.8  | 3.8        | 3.8  | 4.0  | 9.9                | 9.1  | 9.2  |
| UNITED STATES  | 6.8   | 6.8  | 6.9  | 8.2         | 8.3  | 8.3  | 7.4        | 7.4  | 7.7  | 4.6        | 4.5  | 4.9  | 6.6                | 6.8  | 6.9  |

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

Source: U.S. Department of Energy, Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels, Electric Sales and Revenue, <[http://www.eia.doe.gov/oneaf/electricity/esr\\_sum.html](http://www.eia.doe.gov/oneaf/electricity/esr_sum.html)> (Accessed 19 August 2002).

TABLE 10.19—NATURAL GAS DELIVERED TO CONSUMERS, BY CLASS OF SERVICE, 2000, AND TOTAL, 1980—2000, SELECTED YEARS, SOUTHEASTERN STATES [In millions of cubic feet]

| State          | Class of service, 2000       |             |            |            |                    | Vehicle fuel |
|----------------|------------------------------|-------------|------------|------------|--------------------|--------------|
|                | Total                        | Residential | Commercial | Industrial | Electric utilities |              |
| TENNESSEE      | 252,528                      | 67,950      | 53,194     | 129,548    | 1,829              | 9            |
| Alabama        | 298,492                      | 45,794      | 25,340     | 191,010    | 36,344             | 4            |
| Arkansas       | 242,977                      | 42,361      | 33,180     | 132,834    | 34,603             | 0            |
| Florida        | 519,190                      | 15,133      | 47,904     | 139,597    | 316,486            | 69           |
| Georgia        | 394,896                      | 140,838     | 58,808     | 173,277    | 21,447             | 525          |
| Kentucky       | 208,207                      | 64,662      | 38,669     | 100,803    | 4,073              | 1            |
| Louisiana      | 1,266,837                    | 49,744      | 25,660     | 899,418    | 292,002            | 13           |
| Mississippi    | 248,908                      | 26,656      | 21,378     | 111,764    | 89,110             | 0            |
| North Carolina | 221,998                      | 63,897      | 43,101     | 105,416    | 9,579              | 4            |
| South Carolina | 151,660                      | 29,057      | 22,105     | 97,682     | 2,814              | 2            |
| Virginia       | 262,316                      | 79,701      | 66,098     | 100,530    | 15,923             | 63           |
| West Virginia  | 102,616                      | 31,602      | 26,167     | 44,421     | 425                | 1            |
|                | Total delivered to consumers |             |            |            |                    |              |
|                | 2000                         | 1997        | 1994       | 1993       | 1990               | 1980         |
| TENNESSEE      | 252,528                      | 259,773     | 228,007    | 235,514    | 200,161            | 213,169      |
| Alabama        | 298,492                      | 292,093     | 260,830    | 263,421    | 219,286            | 242,793      |
| Arkansas       | 242,977                      | 244,641     | 227,835    | 215,135    | 216,630            | 260,319      |
| Florida        | 519,190                      | 477,639     | 361,428    | 329,829    | 322,516            | 304,638      |
| Georgia        | 394,896                      | 353,699     | 334,418    | 343,598    | 303,674            | 307,827      |
| Kentucky       | 208,207                      | 202,583     | 182,710    | 181,016    | 156,560            | 180,368      |
| Louisiana      | 1,266,837                    | 1,360,152   | 1,353,337  | 1,299,439  | 1,256,987          | 1,523,691    |
| Mississippi    | 248,908                      | 206,747     | 225,730    | 187,611    | 208,699            | 219,828      |
| North Carolina | 221,998                      | 206,939     | 182,107    | 179,694    | 154,927            | 147,448      |
| South Carolina | 151,660                      | 150,961     | 141,863    | 138,767    | 127,595            | 139,214      |
| Virginia       | 262,316                      | 232,672     | 223,122    | 211,037    | 173,437            | 149,980      |
| West Virginia  | 102,616                      | 119,512     | 107,197    | 106,883    | 102,124            | 127,343      |

Source: U.S. Department of Energy, Energy Information Administration, Office of Oil and Gas, Natural Gas Annual, <[http://www.eia.doe.gov/oil\\_gas/natural\\_gas/](http://www.eia.doe.gov/oil_gas/natural_gas/)> (Accessed 17 December 2002).



TABLE 10.20—NUMBER OF NATURAL GAS CONSUMERS, BY CLASS OF SERVICE, SOUTHEASTERN STATES, 1970—2000, SELECTED YEARS [In thousands]

| State          | 2000             |                 |                 | 1997             |                 |                 | 1995             |                 |                 |
|----------------|------------------|-----------------|-----------------|------------------|-----------------|-----------------|------------------|-----------------|-----------------|
|                | Resi-<br>dential | Commer-<br>cial | Indus-<br>trial | Resi-<br>dential | Commer-<br>cial | Indus-<br>trial | Resi-<br>dential | Commer-<br>cial | Indus-<br>trial |
| TENNESSEE      | 962              | 115             | 2               | 868              | 106             | 2               | 805              | 102             | 2               |
| Alabama        | 786              | 65              | 3               | 782              | 66              | 2               | 782              | 61              | 2               |
| Arkansas       | 560              | 73              | 1               | 544              | 68              | 1               | 531              | 65              | 1               |
| Florida        | 572              | 51              | 1               | 533              | 48              | 1               | 512              | 46              | 1               |
| Georgia        | 1,679            | 128             | 3               | 1,554            | 123             | 3               | 1,496            | 120             | 3               |
| Kentucky       | 745              | 82              | 2               | 714              | 78              | 2               | 685              | 75              | 2               |
| Louisiana      | 964              | 63              | 1               | 963              | 62              | 1               | 958              | 63              | 1               |
| Mississippi    | 427              | 49              | 1               | 423              | 47              | 1               | 415              | 45              | 1               |
| North Carolina | 858              | 108             | 5               | 740              | 98              | 5               | 678              | 84              | 4               |
| South Carolina | 489              | 55              | 2               | 443              | 51              | 2               | 412              | 47              | 2               |
| Virginia       | 908              | 85              | 3               | 813              | 79              | 2               | 753              | 75              | 3               |
| West Virginia  | 360              | 42              | 0               | 362              | 34              | (a)             | 354              | 36              | (a)             |
| State          | 1990             |                 |                 | 1980             |                 |                 | 1970             |                 |                 |
|                | Resi-<br>dential | Commer-<br>cial | Indus-<br>trial | Resi-<br>dential | Commer-<br>cial | Indus-<br>trial | Resi-<br>dential | Commer-<br>cial | Indus-<br>trial |
| TENNESSEE      | 627              | 89              | 2               | 457              | 63              | 2               | 391              | 51              | n.a.            |
| Alabama        | 686              | 57              | 2               | 634              | 49              | 2               | 537              | 39              | n.a.            |
| Arkansas       | 489              | 62              | 1               | 456              | 58              | 2               | 376              | 51              | n.a.            |
| Florida        | 458              | 44              | (a)             | 416              | 34              | 1               | 345              | 28              | n.a.            |
| Georgia        | 1,335            | 108             | 3               | 993              | 79              | 2               | 730              | 54              | n.a.            |
| Kentucky       | 624              | 67              | 2               | 587              | 57              | 1               | 523              | 50              | n.a.            |
| Louisiana      | 934              | 63              | 2               | 970              | 69              | 2               | 834              | 74              | n.a.            |
| Mississippi    | 382              | 43              | 1               | 353              | 44              | 1               | 328              | 39              | n.a.            |
| North Carolina | 520              | 68              | 3               | 373              | 46              | 2               | 279              | 38              | n.a.            |
| South Carolina | 339              | 40              | 1               | 263              | 27              | 1               | 211              | 26              | n.a.            |
| Virginia       | 623              | 64              | 1               | 534              | 46              | 1               | 451              | 46              | n.a.            |
| West Virginia  | 350              | 33              | (a)             | 367              | 33              | (a)             | 350              | 29              | n.a.            |

n.a. not available.

a. Less than 500 industrial consumers.

Source: U.S. Department of Energy, Energy Information Administration, Office of Oil and Gas, Natural Gas Annual, <[http://www.eia.doe.gov/oil\\_gas/natural\\_gas/data\\_publications/natural\\_gas\\_annual/nga.html](http://www.eia.doe.gov/oil_gas/natural_gas/data_publications/natural_gas_annual/nga.html)> (Accessed 17 December 2002).

TABLE 10.21—AVERAGE ANNUAL CONSUMPTION PER CONSUMER AND AVERAGE PRICE OF NATURAL GAS, BY CLASS OF SERVICE 2000, AND AVERAGE RESIDENTIAL CONSUMPTION, 1991—2000, SELECTED YEARS, SOUTHEASTERN STATES AND UNITED STATES [In 1,000 cu. ft. and dollar per 1,000 cu. ft.]

| State          | 2000        |        |             |        |             |        |
|----------------|-------------|--------|-------------|--------|-------------|--------|
|                | Residential |        | Commercial  |        | Industrial  |        |
|                | Consumption | Price  | Consumption | Price  | Consumption | Price  |
| TENNESSEE      | 71          | \$7.48 | 463         | \$6.82 | 51,902      | \$5.08 |
| Alabama        | 58          | 9.22   | 390         | 7.68   | 69,332      | 4.67   |
| Arkansas       | 76          | 7.43   | 455         | 5.41   | 93,809      | 5.23   |
| Florida        | 26          | 12.93  | 941         | 7.71   | 170,656     | 5.82   |
| Georgia        | 84          | 8.38   | 458         | 7.02   | 52,588      | 4.83   |
| Kentucky       | 87          | 7.41   | 474         | 6.68   | 55,692      | 4.82   |
| Louisiana      | 52          | 8.34   | 409         | 7.41   | 671,207     | 4.02   |
| Mississippi    | 62          | 7.48   | 433         | 6.48   | 90,718      | 4.66   |
| North Carolina | 74          | 9.53   | 401         | 7.61   | 20,003      | 5.31   |
| South Carolina | 59          | 9.15   | 403         | 7.72   | 56,858      | 4.93   |
| Virginia       | 88          | 9.98   | 781         | 7.57   | 36,411      | 5.23   |
| West Virginia  | 88          | 7.46   | 624         | 6.58   | 216,688     | 4.46   |
| UNITED STATES  | 84          | 7.76   | 632         | 6.59   | 40,464      | 4.48   |

|                | Average annual residential consumption per customer |      |      |      |      |      |      |
|----------------|---|------|------|------|------|------|------|
|                | 2000  | 1997 | 1995 | 1994 | 1993 | 1992 | 1991 |
| TENNESSEE      | 71  | 74   | 75   | 75   | 80   | 75   | 75   |
| Alabama        | 58  | 62   | 66   | 67   | 70   | 70   | 66   |
| Arkansas       | 76  | 78   | 77   | 80   | 89   | 78   | 82   |
| Florida        | 26  | 25   | 28   | 28   | 29   | 30   | 28   |
| Georgia        | 84  | 74   | 77   | 72   | 81   | 77   | 71   |
| Kentucky       | 87  | 93   | 96   | 94   | 102  | 96   | 94   |
| Louisiana      | 52  | 55   | 55   | 56   | 60   | 59   | 58   |
| Mississippi    | 62  | 65   | 65   | 67   | 71   | 68   | 67   |
| North Carolina | 74  | 71   | 73   | 73   | 78   | 74   | 70   |
| South Carolina | 59  | 58   | 61   | 56   | 66   | 63   | 57   |
| Virginia       | 88  | 91   | 91   | 90   | 95   | 94   | 83   |
| West Virginia  | 88  | 99   | 100  | 100  | 100  | 100  | 93   |
| UNITED STATES  | 84  | 89   | 89   | 91   | 94   | 90   | 88   |

Source: U.S. Department of Energy, Energy Information Administration, Office of Oil and Gas, Natural Gas Annual, <[http://www.eia.doe.gov/oil\\_gas/natural\\_gas/data\\_publications/natural\\_gas\\_annual/nga.html](http://www.eia.doe.gov/oil_gas/natural_gas/data_publications/natural_gas_annual/nga.html)>.

TABLE 10.22—NUMBER AND CAPACITY OF OPERABLE PETROLEUM REFINERIES, SOUTHEASTERN STATES AND UNITED STATES, AS OF JANUARY 1, 2002

| State                | Number of operable refineries |            |                   | Crude capacity (in barrels per calendar day) |                   |                   |
|----------------------|-------------------------------|------------|-------------------|--|-------------------|-------------------|
|                      | Total                         | Operating  | Idle <sup>1</sup> | Total  | Operating         | Idle <sup>1</sup> |
| TENNESSEE            | 1                             | 1          | 0                 | 180,000                                      | 180,000           | 0                 |
| Alabama              | 3                             | 2          | 1                 | 130,000                                      | 113,500           | 16,500            |
| Arkansas             | 2                             | 2          | 0                 | 64,800                                       | 64,800            | 0                 |
| Georgia              | 2                             | 1          | 1                 | 33,400                                       | 5,400             | 28,000            |
| Kentucky             | 2                             | 2          | 0                 | 227,500                                      | 227,500           | 0                 |
| Louisiana            | 18                            | 16         | 2                 | 2,735,920                                    | 2,656,000         | 79,920            |
| Mississippi          | 4                             | 4          | 0                 | 334,800                                      | 334,800           | 0                 |
| Virginia             | 1                             | 1          | 0                 | 58,600                                       | 58,600            | 0                 |
| West Virginia        | 1                             | 1          | 0                 | 18,600                                       | 18,600            | 0                 |
| <b>UNITED STATES</b> | <b>153</b>                    | <b>144</b> | <b>9</b>          | <b>16,785,391</b>                            | <b>16,246,301</b> | <b>539,090</b>    |

1. Refineries where distillation units are completely idle but not permanently shut down on January 1.

Source: U.S. Department of Energy, Energy Information Administration, Office of Oil and Gas, Petroleum Supply Annual, 2001, Volume 1, <[http://www.eia.doe.gov/oil\\_gas/petroleum/data\\_publications/petroleum\\_supply\\_annual/psa\\_volume1/psa\\_volume1.html](http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_supply_annual/psa_volume1/psa_volume1.html)> (Accessed 18 December 2002).

TABLE 10.23—NUCLEAR POWER PLANTS: NUMBER OF UNITS, NET SUMMER CAPABILITY, AND NET GENERATION, SOUTHEASTERN STATES AND UNITED STATES, 1999

| State                | Number of units | Net summer capability |                  | Net generation    |                  |
|----------------------|-----------------|-----------------------|------------------|-------------------|------------------|
|                      |                 | Nuclear (mil.kw)      | Percent of total | Nuclear (mil.kwh) | Percent of total |
| TENNESSEE            | 3               | 3.36                  | 19.5             | 27,227            | 30.4             |
| Alabama              | 5               | 4.95                  | 23.1             | 30,892            | 27.1             |
| Arkansas             | 2               | 1.69                  | 18.3             | 12,920            | 29.3             |
| Florida              | 5               | 3.87                  | 10.6             | 31,526            | 18.9             |
| Georgia              | 4               | 3.95                  | 16.9             | 31,478            | 28.6             |
| Kentucky             | 0               | 0.00                  | 0.0              | 0                 | 0.0              |
| Louisiana            | 2               | 2.01                  | 12.3             | 13,112            | 20.3             |
| Mississippi          | 1               | 1.20                  | 17.7             | 8,428             | 25.9             |
| North Carolina       | 5               | 4.69                  | 22.1             | 37,524            | 34.2             |
| South Carolina       | 7               | 6.43                  | 36.4             | 50,814            | 58.2             |
| Virginia             | 4               | 3.39                  | 22.2             | 28,301            | 43.5             |
| West Virginia        | 0               | 0.00                  | 0.0              | 0                 | 0.0              |
| <b>UNITED STATES</b> | <b>104</b>      | <b>97.07</b>          | <b>15.2</b>      | <b>725,036</b>    | <b>22.8</b>      |

Source: U.S. Census Bureau, Statistical Abstract of the United States, 2001, <<http://www.census.gov>> (Accessed 17 December 2002).