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Administration

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EIA Electric Industry Data Collection

Chapter 1

National Summary Data

Table 1.1. Total Electric Power Industry Summary Statistics, 2013 and 2012

| Net Generation and Consumption of Fuels for January through December | | | | | | | | | | | |
|---|---------------------|------------|-------------------|-----------------------|-----------|-----------------------------|-----------|------------|-----------|------------|-----------|
| Fuel | Total (All Sectors) | | | Electric Power Sector | | | | Commercial | | Industrial | |
| | Year 2013 | Year 2012 | Percentage Change | Electric Utilities | | Independent Power Producers | | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| | | | | Year 2013 | Year 2012 | Year 2013 | Year 2012 | | | | |
| Net Generation (Thousand Megawatthours) | | | | | | | | | | | |
| Coal | 1,581,115 | 1,514,043 | 4.4% | 1,188,452 | 1,146,480 | 379,270 | 354,076 | 839 | 883 | 12,554 | 12,603 |
| Petroleum Liquids | 13,820 | 13,403 | 3.1% | 9,446 | 9,892 | 3,761 | 2,757 | 118 | 191 | 495 | 563 |
| Petroleum Coke | 13,344 | 9,787 | 36.3% | 9,522 | 5,664 | 1,780 | 1,758 | 5 | 6 | 2,036 | 2,359 |
| Natural Gas | 1,124,836 | 1,225,894 | -8.2% | 501,427 | 504,958 | 527,522 | 627,833 | 7,154 | 6,603 | 88,733 | 86,500 |
| Other Gas | 12,853 | 11,898 | 8.0% | 798 | 0 | 3,524 | 2,984 | 0 | 0 | 8,531 | 8,913 |
| Nuclear | 789,016 | 769,331 | 2.6% | 406,114 | 394,823 | 382,902 | 374,509 | 0 | 0 | 0 | 0 |
| Hydroelectric Conventional | 268,565 | 276,240 | -2.8% | 243,040 | 252,936 | 22,018 | 20,923 | 44 | 28 | 3,463 | 2,353 |
| Renewable Sources Excluding Hydroelectric | 253,508 | 218,333 | 16.1% | 32,417 | 28,017 | 189,045 | 160,064 | 2,956 | 2,545 | 29,091 | 27,707 |
| ... Wind | 167,840 | 140,822 | 19.2% | 26,436 | 22,926 | 141,306 | 117,822 | 61 | 54 | 37 | 19 |
| ... Solar Thermal and Photovoltaic | 9,036 | 4,327 | 108.8% | 943 | 639 | 7,782 | 3,525 | 294 | 148 | 17 | 14 |
| ... Wood and Wood-Derived Fuels | 40,028 | 37,799 | 5.9% | 2,534 | 1,836 | 9,768 | 9,214 | 34 | 24 | 27,691 | 26,725 |
| ... Other Biomass | 20,830 | 19,823 | 5.1% | 1,499 | 1,472 | 15,419 | 15,084 | 2,567 | 2,319 | 1,346 | 948 |
| ... Geothermal | 15,775 | 15,562 | 1.4% | 1,005 | 1,143 | 14,770 | 14,419 | 0 | 0 | 0 | 0 |
| Hydroelectric Pumped Storage | -4,681 | -4,950 | -5.4% | -3,773 | -4,202 | -908 | -748 | 0 | 0 | 0 | 0 |
| Other Energy Sources | 13,588 | 13,787 | -1.4% | 615 | 603 | 6,742 | 7,030 | 1,118 | 1,046 | 5,113 | 5,108 |
| All Energy Sources | 4,065,964 | 4,047,765 | 0.4% | 2,388,058 | 2,339,172 | 1,515,657 | 1,551,186 | 12,234 | 11,301 | 150,015 | 146,107 |
| Consumption of Fossil Fuels for Electricity Generation | | | | | | | | | | | |
| Coal (1000 tons) | 860,729 | 825,734 | 4.2% | 638,327 | 615,467 | 217,219 | 205,295 | 513 | 307 | 4,670 | 4,665 |
| Petroleum Liquids (1000 barrels) | 23,231 | 22,604 | 2.8% | 16,827 | 17,521 | 5,494 | 4,110 | 328 | 272 | 582 | 702 |
| Petroleum Coke (1000 tons) | 4,852 | 3,675 | 32.0% | 3,409 | 2,105 | 779 | 756 | 1 | 1 | 662 | 812 |
| Natural Gas (1000 Mcf) | 8,596,299 | 9,484,710 | -9.4% | 3,970,447 | 4,101,927 | 3,917,131 | 4,686,260 | 66,570 | 63,116 | 642,152 | 633,407 |
| Consumption of Fossil Fuels for Useful Thermal Output | | | | | | | | | | | |
| Coal (1000 tons) | 18,350 | 19,333 | -5.1% | 0 | 0 | 2,416 | 2,790 | 843 | 1,143 | 15,090 | 15,400 |
| Petroleum Liquids (1000 barrels) | 3,456 | 3,097 | 11.6% | 0 | 0 | 1,050 | 992 | 498 | 122 | 1,908 | 1,984 |
| Petroleum Coke (1000 tons) | 1,486 | 1,346 | 10.4% | 0 | 0 | 96 | 113 | 11 | 11 | 1,379 | 1,222 |
| Natural Gas (1000 Mcf) | 882,385 | 886,103 | -0.4% | 0 | 0 | 303,177 | 322,607 | 51,057 | 47,883 | 528,151 | 515,613 |
| Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output | | | | | | | | | | | |
| Coal (1000 tons) | 879,078 | 845,066 | 4.0% | 638,327 | 615,467 | 219,635 | 208,085 | 1,356 | 1,450 | 19,761 | 20,065 |
| Petroleum Liquids (1000 barrels) | 26,687 | 25,702 | 3.8% | 16,827 | 17,521 | 6,544 | 5,102 | 826 | 394 | 2,490 | 2,685 |
| Petroleum Coke (1000 tons) | 6,338 | 5,021 | 26.2% | 3,409 | 2,105 | 875 | 869 | 12 | 13 | 2,041 | 2,034 |
| Natural Gas (1000 Mcf) | 9,478,685 | 10,370,812 | -8.6% | 3,970,447 | 4,101,927 | 4,220,309 | 5,008,867 | 117,626 | 110,999 | 1,170,303 | 1,149,020 |

| Sales, Revenue, and Average Retail Price for January through December | | | | | | | | | |
|---|------------------------------------|-----------|-------------------|----------------------------------|-----------|-------------------|----------------------------------|-----------|-------------------|
| Sector | Total U.S. Electric Power Industry | | | | | | | | |
| | Retail Sales (million kWh) | | | Retail Revenue (million dollars) | | | Average Retail Price (cents/kWh) | | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Percentage Change |
| Residential | 1,394,919 | 1,374,515 | 1.5% | 169,113 | 163,280 | 3.6% | 12.12 | 11.88 | 2.0% |
| Commercial | 1,344,207 | 1,327,101 | 1.3% | 138,224 | 133,898 | 3.2% | 10.28 | 10.09 | 1.9% |
| Industrial | 978,352 | 985,714 | -0.7% | 66,909 | 65,761 | 1.7% | 6.84 | 6.67 | 2.5% |
| Transportation | 7,625 | 7,320 | 4.2% | 805 | 747 | 7.7% | 10.55 | 10.21 | 3.3% |
| All Sectors | 3,725,103 | 3,694,650 | 0.8% | 375,050 | 363,687 | 3.1% | 10.07 | 9.84 | 2.3% |

NM = Not meaningful due to large relative standard error.

W = Withheld to avoid disclosure of individual company data.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Coal generation and consumption includes anthracite, bituminous, subbituminous, lignite, waste coal, refined coal, synthetic coal, and coal-derived synthesis gas.

Petroleum Liquids includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.

Petroleum Coke includes petroleum coke and synthesis gas derived from petroleum coke.

Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

Other Gases includes blast furnace gas and other manufactured and waste gases derived from fossil fuels.

Wood and Wood-Derived Fuels include wood, black liquor, and other wood waste.

Other Biomass includes biogenic municipal solid waste, landfill gas, sludge waste, agricultural byproducts, and other biomass.

Coal stocks include anthracite, bituminous, subbituminous, lignite, refined coal, and synthetic coal; waste coal is excluded.

Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (e.g., sales data may include imported electricity).

Net generation is presented for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time that vary depending upon customer class and consumption occurring during and outside the calendar month.

Note: Values are final. Percentage change is calculated before rounding.

See technical notes for additional information including more on the Commercial, Industrial, and Transportation sectors.

Table 1.2. Summary Statistics for the United States, 2003 - 2013

(From Table 2.1.) Number of Ultimate Customers

| Year | Residential | Commer-cial | Industrial | Transpor-tation | Other | Total |
|------|-------------|-------------|------------|-----------------|-------|-------------|
| 2003 | 117,280,481 | 16,549,519 | 713,221 | 1,127 | N/A | 134,544,348 |
| 2004 | 118,763,768 | 16,606,783 | 747,600 | 1,025 | N/A | 136,119,176 |
| 2005 | 120,760,839 | 16,871,940 | 733,862 | 518 | N/A | 138,367,159 |
| 2006 | 122,471,071 | 17,172,499 | 759,604 | 791 | N/A | 140,403,965 |
| 2007 | 123,949,916 | 17,377,219 | 793,767 | 750 | N/A | 142,121,652 |
| 2008 | 125,037,837 | 17,582,382 | 774,808 | 726 | N/A | 143,395,753 |
| 2009 | 125,208,829 | 17,562,235 | 757,537 | 704 | N/A | 143,529,305 |
| 2010 | 125,717,935 | 17,674,338 | 747,747 | 239 | N/A | 144,140,259 |
| 2011 | 126,143,072 | 17,638,062 | 727,920 | 92 | N/A | 144,509,146 |
| 2012 | 126,832,343 | 17,729,029 | 732,385 | 83 | N/A | 145,293,840 |
| 2013 | 127,882,249 | 17,782,198 | 743,869 | 75 | N/A | 146,408,391 |

(From Table 2.2.) Sales to Ultimate Customers

(Thousand Megawatthours)

| Year | Residential | Commer-cial | Industrial | Transpor-tation | Other | Total |
|------|-------------|-------------|------------|-----------------|-------|-----------|
| 2003 | 1,275,824 | 1,198,728 | 1,012,373 | 6,810 | N/A | 3,493,734 |
| 2004 | 1,291,982 | 1,230,425 | 1,017,850 | 7,224 | N/A | 3,547,479 |
| 2005 | 1,359,227 | 1,275,079 | 1,019,156 | 7,506 | N/A | 3,660,969 |
| 2006 | 1,351,520 | 1,299,744 | 1,011,298 | 7,358 | N/A | 3,669,919 |
| 2007 | 1,392,241 | 1,336,315 | 1,027,832 | 8,173 | N/A | 3,764,561 |
| 2008 | 1,380,662 | 1,336,133 | 1,009,516 | 7,653 | N/A | 3,733,965 |
| 2009 | 1,364,758 | 1,306,853 | 917,416 | 7,768 | N/A | 3,596,795 |
| 2010 | 1,445,708 | 1,330,199 | 971,221 | 7,712 | N/A | 3,754,841 |
| 2011 | 1,422,801 | 1,328,057 | 991,316 | 7,672 | N/A | 3,749,846 |
| 2012 | 1,374,515 | 1,327,101 | 985,714 | 7,320 | N/A | 3,694,650 |
| 2013 | 1,394,919 | 1,344,206 | 978,351 | 7,625 | N/A | 3,725,101 |

(From Table 2.3.) Revenue From Ultimate Customers

(Million Dollars)

| Year | Residential | Commer-cial | Industrial | Transpor-tation | Other | Total |
|------|-------------|-------------|------------|-----------------|-------|---------|
| 2003 | 111,249 | 96,263 | 51,741 | 514 | N/A | 259,767 |
| 2004 | 115,577 | 100,546 | 53,477 | 519 | N/A | 270,119 |
| 2005 | 128,393 | 110,522 | 58,445 | 643 | N/A | 298,003 |
| 2006 | 140,582 | 122,914 | 62,308 | 702 | N/A | 326,506 |
| 2007 | 148,295 | 128,903 | 65,712 | 792 | N/A | 343,703 |
| 2008 | 155,496 | 137,036 | 70,231 | 820 | N/A | 363,583 |
| 2009 | 157,044 | 132,747 | 62,670 | 828 | N/A | 353,289 |
| 2010 | 166,778 | 135,554 | 65,772 | 814 | N/A | 368,918 |
| 2011 | 166,714 | 135,927 | 67,606 | 803 | N/A | 371,049 |
| 2012 | 163,280 | 133,898 | 65,761 | 747 | N/A | 363,687 |
| 2013 | 169,113 | 138,229 | 66,909 | 805 | N/A | 375,055 |

Table 1.2. Summary Statistics for the United States, 2003 - 2013

**(From Table 2.4.) Average Retail Price
(Cents per Kilowatthour)**

| Year | Residential | Commer-cial | Industrial | Transpor-tation | Other | Total |
|------|-------------|-------------|------------|-----------------|-------|-------|
| 2003 | 8.72 | 8.03 | 5.11 | 7.54 | N/A | 7.44 |
| 2004 | 8.95 | 8.17 | 5.25 | 7.18 | N/A | 7.61 |
| 2005 | 9.45 | 8.67 | 5.73 | 8.57 | N/A | 8.14 |
| 2006 | 10.40 | 9.46 | 6.16 | 9.54 | N/A | 8.90 |
| 2007 | 10.65 | 9.65 | 6.39 | 9.70 | N/A | 9.13 |
| 2008 | 11.26 | 10.26 | 6.96 | 10.71 | N/A | 9.74 |
| 2009 | 11.51 | 10.16 | 6.83 | 10.66 | N/A | 9.82 |
| 2010 | 11.54 | 10.19 | 6.77 | 10.56 | N/A | 9.83 |
| 2011 | 11.72 | 10.24 | 6.82 | 10.46 | N/A | 9.90 |
| 2012 | 11.88 | 10.09 | 6.67 | 10.21 | N/A | 9.84 |
| 2013 | 12.12 | 10.28 | 6.84 | 10.55 | N/A | 10.07 |

**(From Tables 2.11. - 2.13.) Trade
(Thousand Megawatthours)**

| Year | Purchases | Sales for Resale | Imports | Exports |
|------|-----------|------------------|---------|---------|
| 2003 | 6,979,669 | 6,920,954 | 30,395 | 23,975 |
| 2004 | 6,998,549 | 6,758,975 | 34,210 | 22,898 |
| 2005 | 6,092,285 | 6,071,659 | 43,929 | 19,151 |
| 2006 | 5,502,584 | 5,493,473 | 42,691 | 24,271 |
| 2007 | 5,411,422 | 5,479,394 | 51,396 | 20,144 |
| 2008 | 5,612,781 | 5,680,733 | 57,019 | 24,198 |
| 2009 | 5,028,647 | 5,065,031 | 52,191 | 18,138 |
| 2010 | 5,770,134 | 5,929,211 | 45,083 | 19,106 |
| 2011 | 5,024,621 | 5,143,121 | 52,300 | 15,049 |
| 2012 | 4,984,933 | 5,013,765 | 59,257 | 11,996 |
| 2013 | 4,684,977 | 4,842,508 | 68,747 | 22,024 |

(From Tables 3.1.A. and 3.1.B.) Net Generation (Thousand Megawatthours)

| Year | Coal | Petroleum | Natural Gas | Other Gas | Nuclear | Hydro Conventional | Wind |
|------|-----------|-----------|-------------|-----------|---------|--------------------|---------|
| 2003 | 1,973,737 | 119,406 | 649,908 | 15,600 | 763,733 | 275,806 | 11,187 |
| 2004 | 1,978,301 | 121,145 | 710,100 | 15,252 | 788,528 | 268,417 | 14,144 |
| 2005 | 2,012,873 | 122,225 | 760,960 | 13,464 | 781,986 | 270,321 | 17,811 |
| 2006 | 1,990,511 | 64,166 | 816,441 | 14,177 | 787,219 | 289,246 | 26,589 |
| 2007 | 2,016,456 | 65,739 | 896,590 | 13,453 | 806,425 | 247,510 | 34,450 |
| 2008 | 1,985,801 | 46,243 | 882,981 | 11,707 | 806,208 | 254,831 | 55,363 |
| 2009 | 1,755,904 | 38,937 | 920,979 | 10,632 | 798,855 | 273,445 | 73,886 |
| 2010 | 1,847,290 | 37,061 | 987,697 | 11,313 | 806,968 | 260,203 | 94,652 |
| 2011 | 1,733,430 | 30,182 | 1,013,689 | 11,566 | 790,204 | 319,355 | 120,177 |
| 2012 | 1,514,043 | 23,190 | 1,225,894 | 11,898 | 769,331 | 276,240 | 140,822 |
| 2013 | 1,581,115 | 27,164 | 1,124,836 | 12,853 | 789,016 | 268,565 | 167,840 |

Table 1.2. Summary Statistics for the United States, 2003 - 2013

| Year | Solar Thermal and Photo-voltaic | Wood and Wood-Derived Fuels | Geothermal | Other Biomass | Hydro Pumped Storage | Other Energy Sources | All Energy Sources |
|------|---------------------------------|-----------------------------|------------|---------------|----------------------|----------------------|--------------------|
| 2003 | 534 | 37,529 | 14,424 | 15,812 | -8,535 | 14,045 | 3,883,185 |
| 2004 | 575 | 38,117 | 14,811 | 15,421 | -8,488 | 14,232 | 3,970,555 |
| 2005 | 550 | 38,856 | 14,692 | 15,420 | -6,558 | 12,821 | 4,055,423 |
| 2006 | 508 | 38,762 | 14,568 | 16,099 | -6,558 | 12,974 | 4,064,702 |
| 2007 | 612 | 39,014 | 14,637 | 16,525 | -6,896 | 12,231 | 4,156,745 |
| 2008 | 864 | 37,300 | 14,840 | 17,734 | -6,288 | 11,804 | 4,119,388 |
| 2009 | 891 | 36,050 | 15,009 | 18,443 | -4,627 | 11,928 | 3,950,331 |
| 2010 | 1,212 | 37,172 | 15,219 | 18,917 | -5,501 | 12,855 | 4,125,060 |
| 2011 | 1,818 | 37,449 | 15,316 | 19,222 | -6,421 | 14,154 | 4,100,141 |
| 2012 | 4,327 | 37,799 | 15,562 | 19,823 | -4,950 | 13,787 | 4,047,765 |
| 2013 | 9,036 | 40,028 | 15,775 | 20,830 | -4,681 | 13,588 | 4,065,964 |

(From Tables 4.2.A. and 4.2.B.) Net Summer Generating Capacity (Megawatts)

| Year | Coal | Petroleum | Natural Gas | Other Gas | Nuclear | Hydro Conventional | Wind |
|------|---------|-----------|-------------|-----------|---------|--------------------|--------|
| 2003 | 313,019 | 60,730 | 355,442 | 1,994 | 99,209 | 78,694 | 5,995 |
| 2004 | 313,020 | 59,119 | 371,011 | 2,296 | 99,628 | 77,641 | 6,456 |
| 2005 | 313,380 | 58,548 | 383,061 | 2,063 | 99,988 | 77,541 | 8,706 |
| 2006 | 312,956 | 58,097 | 388,294 | 2,256 | 100,334 | 77,821 | 11,329 |
| 2007 | 312,738 | 56,068 | 392,876 | 2,313 | 100,266 | 77,885 | 16,515 |
| 2008 | 313,322 | 57,445 | 397,460 | 1,995 | 100,755 | 77,930 | 24,651 |
| 2009 | 314,294 | 56,781 | 401,272 | 1,932 | 101,004 | 78,518 | 34,296 |
| 2010 | 316,800 | 55,647 | 407,028 | 2,700 | 101,167 | 78,825 | 39,135 |
| 2011 | 317,640 | 51,482 | 415,191 | 1,934 | 101,419 | 78,652 | 45,676 |
| 2012 | 309,680 | 47,167 | 422,364 | 1,946 | 101,885 | 78,738 | 59,075 |
| 2013 | 303,306 | 43,523 | 425,390 | 2,108 | 99,240 | 79,200 | 59,973 |

| Year | Solar Thermal and Photo-voltaic | Wood and Wood-Derived Fuels | Geothermal | Other Biomass | Hydro Pumped Storage | Other Energy Sources | All Energy Sources |
|------|---------------------------------|-----------------------------|------------|---------------|----------------------|----------------------|--------------------|
| 2003 | 397 | 5,871 | 2,133 | 3,758 | 20,522 | 684 | 948,446 |
| 2004 | 398 | 6,182 | 2,152 | 3,529 | 20,764 | 746 | 962,942 |
| 2005 | 411 | 6,193 | 2,285 | 3,609 | 21,347 | 887 | 978,020 |
| 2006 | 411 | 6,372 | 2,274 | 3,727 | 21,461 | 882 | 986,215 |
| 2007 | 502 | 6,704 | 2,214 | 4,134 | 21,886 | 788 | 994,888 |
| 2008 | 536 | 6,864 | 2,229 | 4,186 | 21,858 | 942 | 1,010,171 |
| 2009 | 619 | 6,939 | 2,382 | 4,317 | 22,160 | 888 | 1,025,400 |
| 2010 | 866 | 7,037 | 2,405 | 4,369 | 22,199 | 884 | 1,039,062 |
| 2011 | 1,524 | 7,077 | 2,409 | 4,536 | 22,293 | 1,420 | 1,051,251 |
| 2012 | 3,170 | 7,508 | 2,592 | 4,811 | 22,368 | 1,729 | 1,063,033 |
| 2013 | 6,623 | 8,354 | 2,607 | 5,043 | 22,389 | 2,307 | 1,060,064 |

Table 1.2. Summary Statistics for the United States, 2003 - 2013

(From Chapter 5.) Consumption of Fossil Fuels

| Year | For Electricity Generation | | | | For Useful Thermal Output | | | |
|------|----------------------------|------------------------------------|---|--------------------------------------|----------------------------|------------------------------------|---|--------------------------------------|
| | Coal (Thousand Tons) | Petroleum (Thousand Barrels) | Natural Gas (Millions of Cubic Feet) | Other Gas (Millions of BTU) | Coal (Thousand Tons) | Petroleum (Thousand Barrels) | Natural Gas (Millions of Cubic Feet) | Other Gas (Millions of BTU) |
| 2003 | 1,014,058 | 206,653 | 5,616,135 | 156,306 | 17,720 | 17,939 | 721,267 | 137,838 |
| 2004 | 1,020,523 | 203,494 | 5,674,580 | 135,144 | 24,275 | 25,870 | 1,052,100 | 218,295 |
| 2005 | 1,041,448 | 206,785 | 6,036,370 | 109,916 | 23,833 | 24,408 | 984,340 | 238,396 |
| 2006 | 1,030,556 | 110,634 | 6,461,615 | 114,665 | 23,227 | 20,371 | 942,817 | 226,464 |
| 2007 | 1,046,795 | 112,615 | 7,089,342 | 114,904 | 22,810 | 19,775 | 872,579 | 214,321 |
| 2008 | 1,042,335 | 80,932 | 6,895,843 | 96,757 | 22,168 | 12,016 | 793,537 | 203,236 |
| 2009 | 934,683 | 67,668 | 7,121,069 | 83,593 | 20,507 | 13,161 | 816,787 | 175,671 |
| 2010 | 979,684 | 65,071 | 7,680,185 | 90,058 | 21,727 | 10,161 | 821,775 | 172,081 |
| 2011 | 934,938 | 52,387 | 7,883,865 | 91,290 | 21,532 | 9,223 | 839,681 | 191,138 |
| 2012 | 825,734 | 40,977 | 9,484,710 | 103,353 | 19,333 | 9,828 | 886,103 | 199,121 |
| 2013 | 860,729 | 47,492 | 8,596,299 | 115,303 | 18,350 | 10,886 | 882,385 | 189,902 |

| Year | Total | | | |
|------|----------------------------|------------------------------------|---|--------------------------------------|
| | Coal (Thousand Tons) | Petroleum (Thousand Barrels) | Natural Gas (Millions of Cubic Feet) | Other Gas (Millions of BTU) |
| 2003 | 1,031,778 | 224,593 | 6,337,402 | 294,143 |
| 2004 | 1,044,798 | 229,364 | 6,726,679 | 353,438 |
| 2005 | 1,065,281 | 231,193 | 7,020,709 | 348,312 |
| 2006 | 1,053,783 | 131,005 | 7,404,432 | 341,129 |
| 2007 | 1,069,606 | 132,389 | 7,961,922 | 329,225 |
| 2008 | 1,064,503 | 92,948 | 7,689,380 | 299,993 |
| 2009 | 955,190 | 80,830 | 7,937,856 | 259,265 |
| 2010 | 1,001,411 | 75,231 | 8,501,960 | 262,138 |
| 2011 | 956,470 | 61,610 | 8,723,546 | 282,428 |
| 2012 | 845,066 | 50,805 | 10,370,812 | 302,475 |
| 2013 | 879,078 | 58,378 | 9,478,685 | 305,205 |

(From Tables 6.1. and 7.1)

Year End Stocks, Annual Receipts and Average Costs

| Year | Electric Power Sector Year End Stocks | | Annual Receipts at All Electricity Generators | | | Average Cost of Fuel at All Electricity Generators | | |
|------|--|------------------------------------|--|------------------------------------|--|---|-------------------------------------|---------------------------------------|
| | Coal (Thousand Tons) | Petroleum (Thousand Barrels) | Coal (Thousand Tons) | Petroleum (Thousand Barrels) | Natural Gas (Millions of Cubic Feet) | Coal (Dollars per MMBtu) | Petroleum (Dollars per MMBtu) | Natural Gas (Dollars per MMBtu) |
| 2003 | 121,567 | 53,170 | 986,026 | 185,567 | 5,500,704 | 1.28 | 4.33 | 5.39 |
| 2004 | 106,669 | 51,434 | 1,002,032 | 186,655 | 5,734,054 | 1.36 | 4.29 | 5.96 |
| 2005 | 101,137 | 50,062 | 1,021,437 | 194,733 | 6,181,717 | 1.54 | 6.44 | 8.21 |
| 2006 | 140,964 | 51,583 | 1,079,943 | 100,965 | 6,675,246 | 1.69 | 6.23 | 6.94 |
| 2007 | 151,221 | 47,203 | 1,054,664 | 88,347 | 7,200,316 | 1.77 | 7.17 | 7.11 |
| 2008 | 161,589 | 44,498 | 1,069,709 | 96,341 | 7,879,046 | 2.07 | 10.87 | 9.02 |
| 2009 | 189,467 | 46,181 | 981,477 | 88,951 | 8,118,550 | 2.21 | 7.02 | 4.74 |
| 2010 | 174,917 | 40,800 | 979,918 | 75,285 | 8,673,070 | 2.27 | 9.54 | 5.09 |
| 2011 | 172,387 | 37,387 | 956,538 | 66,058 | 9,056,164 | 2.39 | 12.48 | 4.72 |

Table 1.2. Summary Statistics for the United States, 2003 - 2013

| | | | | | | | | |
|------|---------|--------|---------|--------|-----------|------|-------|------|
| 2012 | 185,116 | 34,698 | 841,183 | 40,364 | 9,531,389 | 2.38 | 12.48 | 3.42 |
| 2013 | 147,884 | 33,622 | 823,222 | 43,714 | 8,503,424 | 2.34 | 11.57 | 4.33 |

(From Tables 10.6. and 10.7.) Energy Efficiency

| Year | Savings | | Incremental Costs | | Life Cycle Savings | | Life Cycle Costs | |
|------|--------------|------------------|-------------------------------|--------------------------|--------------------|------------------|-------------------------------|--------------------------|
| | Energy (MWh) | Peak Demand (MW) | Incentives (thousand dollars) | Other (thousand dollars) | Energy (MWh) | Peak Demand (MW) | Incentives (thousand dollars) | Other (thousand dollars) |
| 2013 | 24,681,728 | 19,622 | 2,872,906 | 1,946,156 | 251,466,857 | 135,192 | 6,035,867 | 3,997,670 |

(From Tables 10.8. and 10.9.) Demand Response

| Year | Yearly Energy and Demand Savings | | | | Program Costs | |
|------|----------------------------------|--------------|----------------------------|-------------------------|-------------------------------|--------------------------|
| | Customers | Energy (MWh) | Potential Peak Demand (MW) | Actual Peak Demand (MW) | Incentives (thousand dollars) | Other (thousand dollars) |
| 2013 | 9,187,350 | 1,401,987 | 40,010 | 19,071 | 1,172,472 | 569,998 |

Coal includes anthracite, bituminous, subbituminous and lignite coal. Starting in 2002 waste coal is included in all coal metrics except for year-end stocks. Starting in 2002 Synthetic coal is included in all coal metrics. Starting in 2011 Coal-derived synthesis gas is included in all coal metrics. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum includes Distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, petroleum coke (converted to liquid petroleum, see Technical Notes for conversion methodology) and waste oil. Prior to 2011 propane was in the Other Gas category. Beginning in 2004 small quantities of waste oil were excluded from petroleum stocks.

Natural gas includes a small number of generators for which waste heat is the primary energy source. Natural gas also includes a small amount of supplemental gaseous fuels that cannot be identified separately.

Prior to 2011, synthesis gas derived from petroleum coke was in the Other Gas category. Other Gas includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Conventional hydroelectric power excludes pumped storage facilities.

Wood and wood derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

Other biomass includes biogenic municipal solid waste, landfill gas, sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases). The reported summer capacity for other biomass also includes non-biogenic municipal solid waste.

Pumped storage is the capacity to generate electricity from water previously pumped to an elevated reservoir and then released through a conduit to turbine generators located at a lower level. The generation from a hydroelectric pumped storage facility is the net value of production minus the energy used for pumping.

Other energy sources include batteries, hydrogen, purchased steam, sulfur, tire-derived fuels and other miscellaneous energy sources, and for generation values, non-biogenic municipal solid waste.

Table 1.2. Summary Statistics for the United States, 2003 - 2013

Costs of fuels for 2002 through 2007 include data from the Form EIA-423 for independent power producers, commercial power-producing facilities, and industrial power-producing facilities. Beginning in 2008, data are collected on the Form EIA-923 for utilities, independent power producers, commercial power-producing facilities, and industrial power-producing facilities. Receipts, cost, and quality data are collected from plants above a 50 MW threshold, and imputed for plants between 1 and 50 MW. Therefore, there may be a notable increase in fuel receipts beginning with 2008 data. Receipts of coal include imported coal.

N/A = Not available.

Notes: See Glossary reference for definitions. See Technical Notes Appendix for conversion to different units of measure. Capacity by energy source is based on the capacity associated with the energy source reported as the most predominant (primary) one, where more than one energy source is associated with a generator. Dual-fired capacity returned to respective fuel categories for current and all historical years. New fuel switchable capacity tables have replaced dual-fired breakouts. Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration Form EIA-411, 'Coordinated Bulk Power Supply Program Report;' Form EIA-412, 'Annual Electric Industry Financial Report'. The Form EIA-412 was terminated in 2003; Form EIA-767, 'Steam-Electric Plant Operation and Design Report' was suspended; Form EIA-860, 'Annual Electric Generator Report;' Form EIA-861, 'Annual Electric Power Industry Report;' Form EIA-923, 'Power Plant Operations Report' replaces several form(s) including: Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report;' Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report;' and FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants,' and their predecessor forms. Federal Energy Regulatory Commission, FERC Form 1, 'Annual Report of Major Utilities, Licensees and Others;' FERC Form 1-F, 'Annual Report for Nonmajor Public Utilities and Licensees;' Rural Utilities Service (RUS) Form 7, 'Operating Report;' RUS Form 12, 'Operating Report;'

Imports and Exports: DOE, Office of Electricity Delivery and Energy Reliability, Form OE-781R, 'Annual Report of International Electric Export/Import Data,' predecessor forms, and National Energy Board of Canada. For 2001 forward, data from the California Independent System Operator are used in combination with the Form OE-781R values to estimate electricity trade with Mexico.

Table 1.3. Supply and Disposition of Electricity, 2003 through 2013

(From Chapter 2.) Supply (Million Megawatthours)

| Year | Generation | | | | | Total Imports | Total Supply |
|------|--------------------|---------------|-----------|-------------------|-------------------|---------------|--------------|
| | Electric Utilities | IPP (Non-CHP) | IPP (CHP) | Commercial Sector | Industrial Sector | | |
| 2003 | 2,462 | 1,063 | 196 | 7 | 155 | 30 | 3,914 |
| 2004 | 2,505 | 1,119 | 184 | 8 | 154 | 34 | 4,005 |
| 2005 | 2,475 | 1,247 | 180 | 8 | 145 | 44 | 4,099 |
| 2006 | 2,484 | 1,259 | 165 | 8 | 148 | 43 | 4,107 |
| 2007 | 2,504 | 1,324 | 177 | 8 | 143 | 51 | 4,208 |
| 2008 | 2,475 | 1,332 | 167 | 8 | 137 | 57 | 4,176 |
| 2009 | 2,373 | 1,278 | 159 | 8 | 132 | 52 | 4,003 |
| 2010 | 2,472 | 1,339 | 162 | 9 | 144 | 45 | 4,170 |
| 2011 | 2,461 | 1,331 | 156 | 10 | 142 | 52 | 4,152 |
| 2012 | 2,339 | 1,387 | 164 | 11 | 146 | 59 | 4,107 |
| 2013 | 2,388 | 1,368 | 148 | 12 | 150 | 69 | 4,135 |

(From Chapter 2.) Disposition (Million Megawatthours)

| Year | Retail Sales | | | Direct Use | Total Exports | Losses and Unaccounted For | Total Disposition |
|------|------------------------|-----------------------|-----------------|------------|---------------|----------------------------|-------------------|
| | Full-Service Providers | Energy-Only Providers | Facility Direct | | | | |
| 2003 | 3,285 | 189 | 20 | 168 | 24 | 228 | 3,914 |
| 2004 | 3,318 | 222 | 8 | 168 | 23 | 266 | 4,005 |
| 2005 | 3,413 | 237 | 11 | 150 | 19 | 269 | 4,099 |
| 2006 | 3,438 | 219 | 12 | 147 | 24 | 266 | 4,107 |
| 2007 | 3,468 | 283 | 14 | 126 | 20 | 298 | 4,208 |
| 2008 | 3,436 | 284 | 14 | 132 | 24 | 286 | 4,176 |
| 2009 | 3,290 | 294 | 13 | 127 | 18 | 261 | 4,003 |
| 2010 | 3,365 | 379 | 10 | 132 | 19 | 264 | 4,170 |
| 2011 | 3,273 | 467 | 10 | 133 | 15 | 255 | 4,152 |
| 2012 | 3,172 | 514 | 8 | 138 | 12 | 263 | 4,107 |
| 2013 | 3,147 | 559 | 18 | 143 | 22 | 244 | 4,135 |

N/A = Not Available.

Facility Direct Retail Sales typically represent bilateral electric power sales between industrial and commercial generating facilities.

Direct Use represents commercial and industrial facility use of onsite net electricity generation; electricity sales or transfers to adjacent or co-located facilities; and barter transactions. Losses and Unaccounted For includes: (1) reporting by utilities and power marketers that represent losses incurred in transmission and distribution, as well as volumes unaccounted for in their own energy balance; and (2) discrepancies among the differing categories upon balancing the table.

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

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including U.S. Energy Information Administration, Form EIA-906, "Power Plant Report;" and Form EIA-920, "Combined Heat and Power Plant Report;" Form EIA-861, "Annual Electric Power Industry Report;" and predecessor forms. Imports and Exports: Mexico data - DOE, Fossil Fuels, Office of Fuels Programs, Form OE-781R, "Annual Report of International Electrical Export/Import Data;" Canada data - National Energy Board of Canada (metered energy firm and interruptible).

Chapter 2

Electricity Sales

Table 2.1. Number of Ultimate Customers Served by Sector, by Provider, 2003 through 2013

| Year | Residential | Commercial | Industrial | Transportation | Total |
|--------------------------------|-------------|------------|------------|----------------|-------------|
| Total Electric Industry | | | | | |
| 2003 | 117,280,481 | 16,549,519 | 713,221 | 1,127 | 134,544,348 |
| 2004 | 118,763,768 | 16,606,783 | 747,600 | 1,025 | 136,119,176 |
| 2005 | 120,760,839 | 16,871,940 | 733,862 | 518 | 138,367,159 |
| 2006 | 122,471,071 | 17,172,499 | 759,604 | 791 | 140,403,965 |
| 2007 | 123,949,916 | 17,377,219 | 793,767 | 750 | 142,121,652 |
| 2008 | 125,037,837 | 17,582,382 | 774,808 | 726 | 143,395,753 |
| 2009 | 125,208,829 | 17,562,235 | 757,537 | 704 | 143,529,305 |
| 2010 | 125,717,935 | 17,674,338 | 747,747 | 239 | 144,140,259 |
| 2011 | 126,143,072 | 17,638,062 | 727,920 | 92 | 144,509,146 |
| 2012 | 126,832,343 | 17,729,029 | 732,385 | 83 | 145,293,840 |
| 2013 | 127,880,358 | 17,781,982 | 743,863 | 75 | 146,406,278 |
| Full-Service Providers | | | | | |
| 2003 | 115,029,545 | 16,136,616 | 695,616 | 1,042 | 131,862,819 |
| 2004 | 116,325,747 | 16,161,269 | 733,809 | 941 | 133,221,766 |
| 2005 | 118,469,928 | 16,389,549 | 719,219 | 496 | 135,579,192 |
| 2006 | 120,677,627 | 16,673,766 | 745,645 | 764 | 138,097,802 |
| 2007 | 121,782,003 | 16,767,635 | 771,637 | 710 | 139,321,985 |
| 2008 | 122,706,203 | 16,932,969 | 756,094 | 696 | 140,395,962 |
| 2009 | 122,560,533 | 16,852,697 | 736,326 | 666 | 140,150,222 |
| 2010 | 121,555,089 | 16,675,341 | 718,652 | 198 | 138,949,280 |
| 2011 | 120,306,190 | 16,321,174 | 682,906 | 56 | 137,310,326 |
| 2012 | 118,650,233 | 16,111,883 | 681,074 | 48 | 135,443,238 |
| 2013 | 116,728,089 | 15,919,862 | 692,832 | 48 | 133,340,831 |
| Energy-Only Providers | | | | | |
| 2003 | 2,250,936 | 412,903 | 17,605 | 85 | 2,681,529 |
| 2004 | 2,438,021 | 445,514 | 13,791 | 84 | 2,897,410 |
| 2005 | 2,290,911 | 482,391 | 14,643 | 22 | 2,787,967 |
| 2006 | 1,793,444 | 498,733 | 13,959 | 27 | 2,306,163 |
| 2007 | 2,167,913 | 609,584 | 22,130 | 40 | 2,799,667 |
| 2008 | 2,331,634 | 649,413 | 18,714 | 30 | 2,999,791 |
| 2009 | 2,648,296 | 709,538 | 21,211 | 38 | 3,379,083 |
| 2010 | 4,162,846 | 998,997 | 29,095 | 41 | 5,190,979 |
| 2011 | 5,836,882 | 1,316,888 | 45,014 | 36 | 7,198,820 |
| 2012 | 8,182,110 | 1,617,146 | 51,311 | 35 | 9,850,602 |
| 2013 | 11,152,269 | 1,862,120 | 51,031 | 27 | 13,065,447 |

N/A = Not Available.

Pursuant to applicable Texas statutes establishing competitive electricity markets within the Electric Reliability Council of Texas (ERCOT), all customers served by Retail Energy Providers must be provided bundled energy and delivery services, so they are included under "Full-Service Providers".

Full-Service Providers sell bundled electricity services (e.g., both energy and delivery) to end users. Full-Service Providers may purchase electricity from others (such as Independent Power Producers or other Full-Service Providers) prior to delivery. Direct sales from independent facility generators to end use consumers are reported under Full-Service Providers. Energy-Only Providers sell energy to end use customers; incumbent utility distribution firms provide Delivery-Only Services for these customers.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." and Form EIA-861S, "Annual Electric Power Industry Report (Short Form)."

Table 2.2. Retail Sales and Direct Use of Electricity to Ultimate Customers by Sector, by Provider, 2003 through 2013 (Megawatthours)

| Year | Residential | Commercial | Industrial | Transportation | Total | Direct Use | Total End Use |
|--------------------------------|---------------|---------------|---------------|----------------|---------------|-------------|---------------|
| Total Electric Industry | | | | | | | |
| 2003 | 1,275,823,910 | 1,198,727,601 | 1,012,373,247 | 6,809,728 | 3,493,734,486 | 168,294,526 | 3,662,029,012 |
| 2004 | 1,291,981,578 | 1,230,424,731 | 1,017,849,532 | 7,223,642 | 3,547,479,483 | 168,470,002 | 3,715,949,485 |
| 2005 | 1,359,227,107 | 1,275,079,020 | 1,019,156,065 | 7,506,321 | 3,660,968,513 | 150,015,531 | 3,810,984,044 |
| 2006 | 1,351,520,036 | 1,299,743,695 | 1,011,297,566 | 7,357,543 | 3,669,918,840 | 146,926,612 | 3,816,845,452 |
| 2007 | 1,392,240,996 | 1,336,315,196 | 1,027,831,925 | 8,172,595 | 3,764,560,712 | 125,670,185 | 3,890,230,897 |
| 2008 | 1,380,661,745 | 1,336,133,485 | 1,009,516,178 | 7,653,211 | 3,733,964,619 | 132,196,685 | 3,866,161,304 |
| 2009 | 1,364,758,153 | 1,306,852,524 | 917,416,468 | 7,767,989 | 3,596,795,134 | 126,937,958 | 3,723,733,092 |
| 2010 | 1,445,708,403 | 1,330,199,364 | 971,221,189 | 7,712,412 | 3,754,841,368 | 131,910,249 | 3,886,751,617 |
| 2011 | 1,422,801,093 | 1,328,057,439 | 991,315,564 | 7,672,084 | 3,749,846,180 | 132,754,037 | 3,882,600,217 |
| 2012 | 1,374,514,708 | 1,327,101,196 | 985,713,854 | 7,320,028 | 3,694,649,786 | 137,656,510 | 3,832,306,296 |
| 2013 | 1,394,890,412 | 1,344,192,383 | 978,355,885 | 7,625,041 | 3,725,063,721 | 143,461,937 | 3,868,525,658 |
| Full-Service Providers | | | | | | | |
| 2003 | 1,257,766,998 | 1,112,206,121 | 931,661,404 | 3,315,043 | 3,304,949,566 | N/A | 3,304,949,566 |
| 2004 | 1,272,237,425 | 1,116,497,417 | 933,529,502 | 3,188,466 | 3,325,452,810 | N/A | 3,325,452,810 |
| 2005 | 1,339,568,275 | 1,151,327,861 | 929,675,932 | 3,341,814 | 3,423,913,882 | N/A | 3,423,913,882 |
| 2006 | 1,337,837,993 | 1,170,661,399 | 939,194,648 | 3,040,062 | 3,450,734,102 | N/A | 3,450,734,102 |
| 2007 | 1,375,450,126 | 1,180,789,042 | 923,148,031 | 2,635,498 | 3,482,022,697 | N/A | 3,482,022,697 |
| 2008 | 1,363,664,159 | 1,173,581,515 | 909,792,014 | 2,540,452 | 3,449,578,140 | N/A | 3,449,578,140 |
| 2009 | 1,345,314,362 | 1,143,473,246 | 811,314,045 | 2,464,259 | 3,302,565,912 | N/A | 3,302,565,912 |
| 2010 | 1,409,355,244 | 1,123,328,313 | 840,439,791 | 2,440,567 | 3,375,563,915 | N/A | 3,375,563,915 |
| 2011 | 1,368,453,770 | 1,090,292,969 | 822,404,124 | 1,730,820 | 3,282,881,683 | N/A | 3,282,881,683 |
| 2012 | 1,297,818,441 | 1,073,346,766 | 807,805,140 | 1,389,340 | 3,180,359,687 | N/A | 3,180,359,687 |
| 2013 | 1,291,446,354 | 1,082,029,490 | 790,773,860 | 1,603,318 | 3,165,853,022 | N/A | 3,165,853,022 |
| Energy-Only Providers | | | | | | | |
| 2003 | 18,056,912 | 86,521,480 | 80,711,843 | 3,494,685 | 188,784,920 | N/A | 188,784,920 |
| 2004 | 19,744,153 | 113,927,314 | 84,320,030 | 4,035,176 | 222,026,673 | N/A | 222,026,673 |
| 2005 | 19,658,832 | 123,751,159 | 89,480,133 | 4,164,507 | 237,054,631 | N/A | 237,054,631 |
| 2006 | 13,682,043 | 129,082,296 | 72,102,918 | 4,317,481 | 219,184,738 | N/A | 219,184,738 |
| 2007 | 16,790,870 | 155,526,154 | 104,683,894 | 5,537,097 | 282,538,015 | N/A | 282,538,015 |
| 2008 | 16,997,586 | 162,551,970 | 99,724,164 | 5,112,759 | 284,386,479 | N/A | 284,386,479 |
| 2009 | 19,443,791 | 163,379,278 | 106,102,423 | 5,303,730 | 294,229,222 | N/A | 294,229,222 |
| 2010 | 36,353,159 | 206,871,051 | 130,781,398 | 5,271,845 | 379,277,453 | N/A | 379,277,453 |
| 2011 | 54,347,323 | 237,764,470 | 168,911,440 | 5,941,264 | 466,964,497 | N/A | 466,964,497 |
| 2012 | 76,696,267 | 253,754,430 | 177,908,714 | 5,930,688 | 514,290,099 | N/A | 514,290,099 |
| 2013 | 103,444,058 | 262,162,893 | 187,582,025 | 6,021,723 | 559,210,699 | N/A | 559,210,699 |

N/A = Not Available.

Direct Use represents commercial and industrial facility use of onsite net electricity generation; and electricity sales or transfers to adjacent or co-located facilities for which revenue information is not available.

Pursuant to applicable Texas statutes establishing competitive electricity markets within the Electric Reliability Council of Texas (ERCOT), all customers served by Retail Energy Providers must be provided bundled energy and delivery services, so they are included under "Full-Service Providers".

Full-Service Providers sell bundled electricity services (e.g., both energy and delivery) to end users. Full-Service Providers may purchase electricity from others (such as Independent Power Producers or other Full-Service Providers) prior to delivery. Direct sales from independent facility generators to end use consumers are reported under Full-Service Providers. Energy-Only Providers sell energy to end use customers; incumbent utility distribution firms provide Delivery-Only Services for these customers.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report.", Form EIA-861S, "Annual Electric Power Industry Report (Short Form)" and Form EIA-923, "Power Plant Operations Report"

Table 2.3. Revenue from Retail Sales of Electricity to Ultimate Customers by Sector, by Provider, 2003 through 2013 (Million Dollars)

| Year | Residential | Commercial | Industrial | Transportation | Total |
|--|-------------|------------|------------|----------------|---------|
| Total Electric Industry | | | | | |
| 2003 | 111,249 | 96,263 | 51,741 | 514 | 259,767 |
| 2004 | 115,577 | 100,546 | 53,477 | 519 | 270,119 |
| 2005 | 128,393 | 110,522 | 58,445 | 643 | 298,003 |
| 2006 | 140,582 | 122,914 | 62,308 | 702 | 326,506 |
| 2007 | 148,295 | 128,903 | 65,712 | 792 | 343,703 |
| 2008 | 155,496 | 137,036 | 70,231 | 820 | 363,583 |
| 2009 | 157,044 | 132,747 | 62,670 | 828 | 353,289 |
| 2010 | 166,778 | 135,554 | 65,772 | 814 | 368,918 |
| 2011 | 166,714 | 135,927 | 67,606 | 803 | 371,049 |
| 2012 | 163,280 | 133,898 | 65,761 | 747 | 363,687 |
| 2013 | 170,466 | 138,679 | 66,934 | 805 | 376,884 |
| Full-Service Providers | | | | | |
| 2003 | 109,165 | 87,764 | 46,686 | 226 | 243,841 |
| 2004 | 113,306 | 89,597 | 47,993 | 238 | 251,134 |
| 2005 | 125,983 | 97,405 | 52,113 | 249 | 275,749 |
| 2006 | 138,608 | 107,432 | 56,385 | 257 | 302,683 |
| 2007 | 145,642 | 109,703 | 56,950 | 232 | 312,527 |
| 2008 | 152,520 | 115,413 | 61,117 | 252 | 329,301 |
| 2009 | 153,741 | 112,254 | 53,284 | 226 | 319,506 |
| 2010 | 161,221 | 110,298 | 54,582 | 233 | 326,334 |
| 2011 | 158,788 | 108,318 | 54,285 | 162 | 321,552 |
| 2012 | 152,817 | 106,012 | 52,667 | 132 | 311,628 |
| 2013 | 156,538 | 109,951 | 53,309 | 167 | 319,965 |
| Restructured Retail Service Providers | | | | | |
| 2003 | 2,084 | 8,499 | 5,055 | 288 | 15,926 |
| 2004 | 2,272 | 10,949 | 5,484 | 281 | 18,985 |
| 2005 | 2,410 | 13,117 | 6,333 | 394 | 22,254 |
| 2006 | 1,974 | 15,482 | 5,922 | 445 | 23,823 |
| 2007 | 2,653 | 19,200 | 8,762 | 560 | 31,176 |
| 2008 | 2,977 | 21,623 | 9,114 | 568 | 34,282 |
| 2009 | 3,302 | 20,493 | 9,386 | 602 | 33,783 |
| 2010 | 5,557 | 25,256 | 11,190 | 581 | 42,584 |
| 2011 | 7,926 | 27,609 | 13,321 | 641 | 49,497 |
| 2012 | 10,464 | 27,886 | 13,094 | 615 | 52,059 |
| 2013 | 13,928 | 28,729 | 13,625 | 638 | 56,919 |
| Energy-Only Providers | | | | | |
| 2003 | 980 | 5,210 | 3,605 | 215 | 10,011 |
| 2004 | 1,086 | 6,859 | 3,881 | 201 | 12,027 |
| 2005 | 1,285 | 8,844 | 4,749 | 308 | 15,186 |
| 2006 | 1,127 | 10,792 | 4,510 | 356 | 16,784 |
| 2007 | 1,646 | 13,553 | 7,197 | 458 | 22,854 |
| 2008 | 1,859 | 15,661 | 7,506 | 448 | 25,474 |
| 2009 | 1,889 | 14,045 | 7,369 | 460 | 23,763 |
| 2010 | 3,226 | 16,994 | 8,664 | 424 | 29,308 |
| 2011 | 4,578 | 18,086 | 10,392 | 463 | 33,519 |
| 2012 | 5,776 | 17,397 | 9,895 | 432 | 33,500 |
| 2013 | 7,755 | 17,876 | 10,330 | 451 | 36,412 |
| Delivery-Only Providers | | | | | |
| 2003 | 1,104 | 3,289 | 1,450 | 72 | 5,915 |
| 2004 | 1,186 | 4,090 | 1,603 | 79 | 6,958 |
| 2005 | 1,125 | 4,273 | 1,584 | 86 | 7,068 |
| 2006 | 847 | 4,690 | 1,412 | 90 | 7,040 |
| 2007 | 1,007 | 5,647 | 1,565 | 102 | 8,322 |
| 2008 | 1,118 | 5,962 | 1,608 | 120 | 8,808 |
| 2009 | 1,413 | 6,448 | 2,017 | 143 | 10,021 |
| 2010 | 2,330 | 8,262 | 2,526 | 157 | 13,276 |
| 2011 | 3,348 | 9,523 | 2,929 | 178 | 15,978 |
| 2012 | 4,687 | 10,489 | 3,199 | 183 | 18,559 |
| 2013 | 6,172 | 10,853 | 3,295 | 187 | 20,507 |

N/A = Not Available.

Pursuant to applicable Texas statutes establishing competitive electricity markets within the Electric Reliability Council of Texas (ERCOT), all customers served by Retail Energy Providers must be provided bundled energy and delivery services, so they are included under "Full-Service Providers".

Full-Service Providers sell bundled electricity services (e.g., both energy and delivery) to end users. Full-Service Providers may purchase electricity from others (such as Independent Power Producers or other Full-Service Providers) prior to delivery. Direct sales from independent facility generators to end use consumers are reported under Full-Service Providers. Energy-Only Providers sell energy to end use customers; incumbent utility distribution firms provide Delivery-Only Services for these customers. Data reported under Restructured Retail Service Providers represent the sum of Energy-Only and Delivery-Only Services."

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

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." Form EIA-861S, "Annual Electric Power Industry Report (Short Form)."

Table 2.4. Average Retail Price of Electricity to Ultimate Customers

by End-Use Sectors 2003 through 2013 (Cents per kilowatthour)

| Year | Residential | Commercial | Industrial | Transportation | Total |
|--|-------------|------------|------------|----------------|-------|
| Total Electric Industry | | | | | |
| 2003 | 8.72 | 8.03 | 5.11 | 7.54 | 7.44 |
| 2004 | 8.95 | 8.17 | 5.25 | 7.18 | 7.61 |
| 2005 | 9.45 | 8.67 | 5.73 | 8.57 | 8.14 |
| 2006 | 10.40 | 9.46 | 6.16 | 9.54 | 8.90 |
| 2007 | 10.65 | 9.65 | 6.39 | 9.70 | 9.13 |
| 2008 | 11.26 | 10.26 | 6.96 | 10.71 | 9.74 |
| 2009 | 11.51 | 10.16 | 6.83 | 10.66 | 9.82 |
| 2010 | 11.54 | 10.19 | 6.77 | 10.56 | 9.83 |
| 2011 | 11.72 | 10.24 | 6.82 | 10.46 | 9.90 |
| 2012 | 11.88 | 10.09 | 6.67 | 10.21 | 9.84 |
| 2013 | 12.22 | 10.32 | 6.84 | 10.55 | 10.12 |
| Full-Service Providers | | | | | |
| 2003 | 8.68 | 7.89 | 5.01 | 6.82 | 7.38 |
| 2004 | 8.91 | 8.02 | 5.14 | 7.47 | 7.55 |
| 2005 | 9.40 | 8.46 | 5.61 | 7.45 | 8.05 |
| 2006 | 10.36 | 9.18 | 6.0 | 8.44 | 8.77 |
| 2007 | 10.59 | 9.29 | 6.17 | 8.82 | 8.98 |
| 2008 | 11.18 | 9.83 | 6.72 | 9.91 | 9.55 |
| 2009 | 11.43 | 9.82 | 6.57 | 9.17 | 9.67 |
| 2010 | 11.44 | 9.82 | 6.49 | 9.55 | 9.67 |
| 2011 | 11.60 | 9.93 | 6.60 | 9.35 | 9.79 |
| 2012 | 11.77 | 9.88 | 6.52 | 9.50 | 9.80 |
| 2013 | 12.12 | 10.16 | 6.74 | 10.40 | 10.11 |
| Restructured Retail Service Providers | | | | | |
| 2003 | 11.54 | 9.82 | 6.26 | 8.23 | 8.44 |
| 2004 | 11.51 | 9.61 | 6.50 | 6.95 | 8.55 |
| 2005 | 12.26 | 10.60 | 7.08 | 9.47 | 9.39 |
| 2006 | 14.43 | 11.99 | 8.21 | 10.32 | 10.87 |
| 2007 | 15.80 | 12.35 | 8.37 | 10.11 | 11.03 |
| 2008 | 17.51 | 13.30 | 9.14 | 11.11 | 12.05 |
| 2009 | 16.98 | 12.54 | 8.85 | 11.36 | 11.48 |
| 2010 | 15.29 | 12.21 | 8.56 | 11.03 | 11.23 |
| 2011 | 14.58 | 11.61 | 7.89 | 10.79 | 10.60 |
| 2012 | 13.64 | 10.99 | 7.36 | 10.38 | 10.12 |
| 2013 | 13.46 | 10.96 | 7.26 | 10.60 | 10.18 |
| Energy-Only Providers | | | | | |
| 2003 | 5.43 | 6.02 | 4.47 | 6.16 | 5.30 |
| 2004 | 5.50 | 6.02 | 4.60 | 4.99 | 5.42 |
| 2005 | 6.54 | 7.15 | 5.31 | 7.40 | 6.41 |
| 2006 | 8.23 | 8.36 | 6.25 | 8.24 | 7.66 |
| 2007 | 9.80 | 8.71 | 6.87 | 8.28 | 8.09 |
| 2008 | 10.94 | 9.63 | 7.53 | 8.77 | 8.96 |
| 2009 | 9.72 | 8.60 | 6.94 | 8.67 | 8.08 |
| 2010 | 8.88 | 8.21 | 6.62 | 8.05 | 7.73 |
| 2011 | 8.42 | 7.61 | 6.15 | 7.80 | 7.18 |
| 2012 | 7.53 | 6.86 | 5.56 | 7.29 | 6.51 |
| 2013 | 7.50 | 6.82 | 5.51 | 7.49 | 6.51 |
| Delivery-Only Providers | | | | | |
| 2003 | 6.11 | 3.80 | 1.80 | 2.07 | 3.13 |
| 2004 | 6.0 | 3.59 | 1.90 | 1.96 | 3.13 |
| 2005 | 5.72 | 3.45 | 1.77 | 2.07 | 2.98 |
| 2006 | 6.19 | 3.63 | 1.96 | 2.08 | 3.21 |
| 2007 | 6.0 | 3.63 | 1.50 | 1.84 | 2.95 |
| 2008 | 6.58 | 3.67 | 1.61 | 2.35 | 3.10 |
| 2009 | 7.27 | 3.95 | 1.90 | 2.69 | 3.41 |
| 2010 | 6.41 | 3.99 | 1.93 | 2.98 | 3.50 |
| 2011 | 6.16 | 4.01 | 1.73 | 2.99 | 3.42 |
| 2012 | 6.11 | 4.13 | 1.80 | 3.09 | 3.61 |
| 2013 | 5.97 | 4.14 | 1.76 | 3.11 | 3.67 |

N/A = Not Available.

Pursuant to applicable Texas statutes establishing competitive electricity markets within the Electric Reliability Council of Texas (ERCOT), all customers served by Retail Energy Providers must be provided bundled energy and delivery services, so they are included under "Full-Service Providers".

Full-Service Providers sell bundled electricity services (e.g., both energy and delivery) to end users. Full-Service Providers may purchase electricity from others (such as Independent Power Producers or other Full-Service Providers) prior to delivery. Direct sales from independent facility generators to end use consumers are reported under Full-Service Providers. Energy-Only Providers sell energy to end use customers; incumbent utility distribution firms provide Delivery-Only Services for these customers. Data reported under Restructured Retail Service Providers represent the sum of Energy-Only and Delivery-Only Services."

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

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." Form EIA-861S, "Annual Electric Power Industry Report (Short Form)."

**Table 2.5. Retail Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2003 - December 2013 (Million Kilowatthours)**

| Period | Residential | Commercial | Industrial | Transportation | All Sectors |
|----------------------|-------------|------------|------------|----------------|-------------|
| Annual Totals | | | | | |
| 2003 | 1,275,824 | 1,198,728 | 1,012,373 | 6,810 | 3,493,734 |
| 2004 | 1,291,982 | 1,230,425 | 1,017,850 | 7,224 | 3,547,479 |
| 2005 | 1,359,227 | 1,275,079 | 1,019,156 | 7,506 | 3,660,969 |
| 2006 | 1,351,520 | 1,299,744 | 1,011,298 | 7,358 | 3,669,919 |
| 2007 | 1,392,241 | 1,336,315 | 1,027,832 | 8,173 | 3,764,561 |
| 2008 | 1,380,662 | 1,336,133 | 1,009,516 | 7,653 | 3,733,965 |
| 2009 | 1,364,758 | 1,306,853 | 917,416 | 7,768 | 3,596,795 |
| 2010 | 1,445,708 | 1,330,199 | 971,221 | 7,712 | 3,754,841 |
| 2011 | 1,422,801 | 1,328,057 | 991,316 | 7,672 | 3,749,846 |
| 2012 | 1,374,515 | 1,327,101 | 985,714 | 7,320 | 3,694,650 |
| 2013 | 1,394,890 | 1,344,192 | 978,356 | 7,625 | 3,725,064 |
| Year 2011 | | | | | |
| January | 145,062 | 108,251 | 80,093 | 710 | 334,116 |
| February | 120,110 | 99,796 | 76,361 | 637 | 296,903 |
| March | 104,922 | 104,257 | 82,209 | 664 | 292,052 |
| April | 93,702 | 100,506 | 80,367 | 629 | 275,204 |
| May | 97,689 | 107,625 | 82,061 | 619 | 287,993 |
| June | 125,983 | 118,170 | 83,912 | 643 | 328,707 |
| July | 154,729 | 128,065 | 87,247 | 650 | 370,692 |
| August | 153,739 | 129,368 | 88,987 | 625 | 372,720 |
| September | 122,719 | 117,951 | 84,943 | 634 | 326,247 |
| October | 94,585 | 108,650 | 84,282 | 616 | 288,133 |
| November | 93,220 | 100,552 | 80,872 | 590 | 275,235 |
| December | 116,341 | 104,866 | 79,982 | 656 | 301,844 |
| Year 2012 | | | | | |
| January | 125,881 | 105,239 | 79,205 | 650 | 310,975 |
| February | 107,975 | 100,080 | 78,298 | 629 | 286,983 |
| March | 99,362 | 102,474 | 81,298 | 597 | 283,731 |
| April | 88,103 | 101,037 | 81,030 | 590 | 270,760 |
| May | 100,895 | 110,800 | 84,678 | 595 | 296,968 |
| June | 122,934 | 118,009 | 83,619 | 597 | 325,160 |
| July | 154,579 | 128,535 | 87,219 | 629 | 370,963 |
| August | 147,941 | 128,106 | 88,105 | 633 | 364,785 |
| September | 118,831 | 116,585 | 82,060 | 613 | 318,090 |
| October | 96,669 | 110,471 | 82,996 | 599 | 290,735 |
| November | 97,155 | 101,641 | 78,847 | 569 | 278,212 |
| December | 114,188 | 104,122 | 78,360 | 619 | 297,288 |
| Year 2013 | | | | | |
| January | 131,793 | 107,981 | 80,264 | 664 | 320,702 |
| February | 113,122 | 101,278 | 76,441 | 659 | 291,499 |
| March | 112,103 | 104,390 | 80,107 | 644 | 297,243 |
| April | 95,546 | 101,885 | 79,737 | 630 | 277,798 |
| May | 95,198 | 109,405 | 84,187 | 627 | 289,418 |
| June | 117,991 | 118,244 | 83,351 | 638 | 320,223 |
| July | 143,877 | 128,322 | 85,907 | 649 | 358,755 |
| August | 138,073 | 128,001 | 86,870 | 645 | 353,589 |
| September | 121,427 | 119,168 | 82,276 | 626 | 323,497 |
| October | 98,899 | 112,547 | 82,351 | 591 | 294,388 |
| November | 97,909 | 103,821 | 79,204 | 574 | 281,509 |
| December | 128,952 | 109,150 | 77,662 | 679 | 316,442 |

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.

Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.

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

Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

**Table 2.6. Revenue from Retail Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2003 - December 2013 (Million Dollars)**

| Period | Residential | Commercial | Industrial | Transportation | All Sectors |
|----------------------|-------------|------------|------------|----------------|-------------|
| Annual Totals | | | | | |
| 2003 | 111,249 | 96,263 | 51,741 | 514 | 259,767 |
| 2004 | 115,577 | 100,546 | 53,477 | 519 | 270,119 |
| 2005 | 128,393 | 110,522 | 58,445 | 643 | 298,003 |
| 2006 | 140,582 | 122,914 | 62,308 | 702 | 326,506 |
| 2007 | 148,295 | 128,903 | 65,712 | 792 | 343,703 |
| 2008 | 155,496 | 137,036 | 70,231 | 820 | 363,583 |
| 2009 | 157,044 | 132,747 | 62,670 | 828 | 353,289 |
| 2010 | 166,778 | 135,554 | 65,772 | 814 | 368,918 |
| 2011 | 166,714 | 135,927 | 67,606 | 803 | 371,049 |
| 2012 | 163,280 | 133,898 | 65,761 | 747 | 363,687 |
| 2013 | 170,466 | 138,679 | 66,934 | 805 | 376,884 |
| Year 2011 | | | | | |
| January | 15,771 | 10,590 | 5,229 | 73 | 31,663 |
| February | 13,284 | 9,968 | 5,059 | 67 | 28,378 |
| March | 12,090 | 10,354 | 5,370 | 68 | 27,882 |
| April | 10,936 | 10,015 | 5,244 | 63 | 26,258 |
| May | 11,656 | 10,963 | 5,479 | 66 | 28,164 |
| June | 15,080 | 12,592 | 5,993 | 71 | 33,735 |
| July | 18,709 | 13,661 | 6,384 | 73 | 38,827 |
| August | 18,583 | 13,874 | 6,580 | 68 | 39,104 |
| September | 14,934 | 12,494 | 6,074 | 68 | 33,571 |
| October | 11,427 | 11,142 | 5,705 | 63 | 28,337 |
| November | 10,982 | 10,034 | 5,281 | 59 | 26,355 |
| December | 13,262 | 10,241 | 5,207 | 64 | 28,774 |
| Year 2012 | | | | | |
| January | 14,360 | 10,352 | 5,102 | 64 | 29,878 |
| February | 12,424 | 9,944 | 5,052 | 60 | 27,479 |
| March | 11,621 | 10,086 | 5,250 | 59 | 27,015 |
| April | 10,504 | 9,919 | 5,168 | 60 | 25,650 |
| May | 12,011 | 11,039 | 5,528 | 59 | 28,637 |
| June | 14,863 | 12,259 | 5,765 | 62 | 32,949 |
| July | 18,553 | 13,354 | 6,219 | 67 | 38,193 |
| August | 18,009 | 13,313 | 6,239 | 67 | 37,629 |
| September | 14,614 | 12,238 | 5,716 | 66 | 32,634 |
| October | 11,633 | 11,131 | 5,491 | 61 | 28,316 |
| November | 11,418 | 10,052 | 5,122 | 59 | 26,651 |
| December | 13,271 | 10,212 | 5,110 | 64 | 28,656 |
| Year 2013 | | | | | |
| January | 15,219 | 10,588 | 5,206 | 70 | 31,083 |
| February | 13,269 | 10,225 | 5,080 | 70 | 28,644 |
| March | 13,123 | 10,493 | 5,306 | 66 | 28,988 |
| April | 11,490 | 10,180 | 5,229 | 65 | 26,964 |
| May | 11,903 | 11,251 | 5,644 | 66 | 28,864 |
| June | 14,911 | 12,679 | 5,974 | 69 | 33,632 |
| July | 18,349 | 13,835 | 6,323 | 71 | 38,579 |
| August | 17,422 | 13,760 | 6,328 | 69 | 37,580 |
| September | 15,306 | 12,625 | 5,875 | 68 | 33,874 |
| October | 12,310 | 11,642 | 5,589 | 62 | 29,603 |
| November | 11,927 | 10,498 | 5,228 | 60 | 27,713 |
| December | 15,236 | 10,903 | 5,152 | 69 | 31,360 |

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.

Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.

Sources: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report; Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

**Table 2.7. Average Retail Price of Electricity to Ultimate Customers:
Total by End-Use Sector, 2003 - December 2013 (Cents per Kilowatthour)**

| Period | Residential | Commercial | Industrial | Transportation | All Sectors |
|----------------------|-------------|------------|------------|----------------|-------------|
| Annual Totals | | | | | |
| 2003 | 8.72 | 8.03 | 5.11 | 7.54 | 7.44 |
| 2004 | 8.95 | 8.17 | 5.25 | 7.18 | 7.61 |
| 2005 | 9.45 | 8.67 | 5.73 | 8.57 | 8.14 |
| 2006 | 10.40 | 9.46 | 6.16 | 9.54 | 8.90 |
| 2007 | 10.65 | 9.65 | 6.39 | 9.70 | 9.13 |
| 2008 | 11.26 | 10.26 | 6.96 | 10.71 | 9.74 |
| 2009 | 11.51 | 10.16 | 6.83 | 10.66 | 9.82 |
| 2010 | 11.54 | 10.19 | 6.77 | 10.56 | 9.83 |
| 2011 | 11.72 | 10.24 | 6.82 | 10.46 | 9.90 |
| 2012 | 11.88 | 10.09 | 6.67 | 10.21 | 9.84 |
| 2013 | 12.22 | 10.32 | 6.84 | 10.55 | 10.12 |
| Year 2011 | | | | | |
| January | 10.87 | 9.78 | 6.53 | 10.29 | 9.48 |
| February | 11.06 | 9.99 | 6.63 | 10.55 | 9.56 |
| March | 11.52 | 9.93 | 6.53 | 10.24 | 9.55 |
| April | 11.67 | 9.96 | 6.53 | 9.97 | 9.54 |
| May | 11.93 | 10.19 | 6.68 | 10.70 | 9.78 |
| June | 11.97 | 10.66 | 7.14 | 11.01 | 10.26 |
| July | 12.09 | 10.67 | 7.32 | 11.21 | 10.47 |
| August | 12.09 | 10.72 | 7.39 | 10.82 | 10.49 |
| September | 12.17 | 10.59 | 7.15 | 10.80 | 10.29 |
| October | 12.08 | 10.25 | 6.77 | 10.25 | 9.83 |
| November | 11.78 | 9.98 | 6.53 | 9.93 | 9.58 |
| December | 11.40 | 9.77 | 6.51 | 9.79 | 9.53 |
| Year 2012 | | | | | |
| January | 11.41 | 9.84 | 6.44 | 9.78 | 9.61 |
| February | 11.51 | 9.94 | 6.45 | 9.61 | 9.58 |
| March | 11.70 | 9.84 | 6.46 | 9.95 | 9.52 |
| April | 11.92 | 9.82 | 6.38 | 10.11 | 9.47 |
| May | 11.90 | 9.96 | 6.53 | 9.97 | 9.64 |
| June | 12.09 | 10.39 | 6.89 | 10.33 | 10.13 |
| July | 12.00 | 10.39 | 7.13 | 10.70 | 10.30 |
| August | 12.17 | 10.39 | 7.08 | 10.53 | 10.32 |
| September | 12.30 | 10.50 | 6.97 | 10.74 | 10.26 |
| October | 12.03 | 10.08 | 6.62 | 10.13 | 9.74 |
| November | 11.75 | 9.89 | 6.50 | 10.41 | 9.58 |
| December | 11.62 | 9.81 | 6.52 | 10.28 | 9.64 |
| Year 2013 | | | | | |
| January | 11.55 | 9.81 | 6.49 | 10.53 | 9.69 |
| February | 11.73 | 10.10 | 6.65 | 10.56 | 9.83 |
| March | 11.71 | 10.05 | 6.62 | 10.25 | 9.75 |
| April | 12.03 | 9.99 | 6.56 | 10.28 | 9.71 |
| May | 12.50 | 10.28 | 6.70 | 10.50 | 9.97 |
| June | 12.64 | 10.72 | 7.17 | 10.76 | 10.50 |
| July | 12.75 | 10.78 | 7.36 | 10.97 | 10.75 |
| August | 12.62 | 10.75 | 7.28 | 10.77 | 10.63 |
| September | 12.60 | 10.59 | 7.14 | 10.88 | 10.47 |
| October | 12.45 | 10.34 | 6.79 | 10.46 | 10.06 |
| November | 12.18 | 10.11 | 6.60 | 10.49 | 9.84 |
| December | 11.82 | 9.99 | 6.63 | 10.20 | 9.91 |

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.

Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Retail sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while retail sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.

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

Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 2.8. Retail Sales of Electricity to Ultimate Customers by End-Use Sector, by State, 2013 and 2012 (Million Kilowatthours)

| Census Division and State | Residential | | Commercial | | Industrial | | Transportation | | All Sectors | |
|---------------------------|-------------|-----------|------------|-----------|------------|-----------|----------------|-----------|-------------|-----------|
| | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 48,369 | 47,208 | 44,938 | 44,864 | 27,472 | 27,818 | 577 | 566 | 121,357 | 120,456 |
| Connecticut | 13,135 | 12,758 | 13,009 | 12,976 | 3,490 | 3,566 | 190 | 193 | 29,825 | 29,492 |
| Maine | 4,662 | 4,481 | 4,016 | 4,053 | 3,177 | 3,027 | 0 | 0 | 11,855 | 11,561 |
| Massachusetts | 20,728 | 20,313 | 17,713 | 17,723 | 16,463 | 16,927 | 361 | 350 | 55,265 | 55,313 |
| New Hampshire | 4,554 | 4,439 | 4,517 | 4,478 | 1,973 | 1,953 | 0 | 0 | 11,043 | 10,870 |
| Rhode Island | 3,165 | 3,121 | 3,667 | 3,640 | 923 | 923 | 26 | 24 | 7,781 | 7,708 |
| Vermont | 2,125 | 2,095 | 2,017 | 1,994 | 1,446 | 1,422 | 0 | 0 | 5,588 | 5,511 |
| Middle Atlantic | 133,575 | 132,231 | 157,718 | 157,278 | 73,521 | 69,507 | 3,979 | 3,910 | 368,793 | 362,925 |
| New Jersey | 28,545 | 28,663 | 38,231 | 38,340 | 7,566 | 7,762 | 301 | 287 | 74,642 | 75,053 |
| New York | 50,779 | 50,692 | 76,343 | 76,018 | 17,913 | 13,705 | 2,864 | 2,748 | 147,899 | 143,163 |
| Pennsylvania | 54,251 | 52,876 | 43,144 | 42,920 | 48,042 | 48,039 | 814 | 875 | 146,252 | 144,710 |
| East North Central | 188,048 | 188,641 | 182,800 | 183,333 | 198,274 | 202,221 | 645 | 614 | 569,766 | 574,809 |
| Illinois | 46,372 | 46,902 | 50,473 | 50,808 | 44,387 | 45,277 | 573 | 553 | 141,805 | 143,540 |
| Indiana | 33,408 | 32,964 | 24,253 | 24,022 | 47,809 | 48,168 | 21 | 20 | 105,492 | 105,173 |
| Michigan | 34,013 | 34,461 | 37,698 | 38,514 | 31,322 | 31,836 | 6 | 7 | 103,039 | 104,818 |
| Ohio | 52,158 | 52,288 | 46,718 | 46,756 | 51,387 | 53,379 | 44 | 34 | 150,307 | 152,457 |
| Wisconsin | 22,096 | 22,026 | 23,658 | 23,233 | 23,370 | 23,561 | 0 | 0 | 69,124 | 68,820 |
| West North Central | 106,310 | 102,799 | 100,979 | 99,542 | 90,213 | 91,325 | 41 | 39 | 297,544 | 293,706 |
| Iowa | 14,626 | 13,988 | 12,444 | 12,210 | 19,635 | 19,512 | 0 | 0 | 46,705 | 45,709 |
| Kansas | 13,593 | 13,797 | 15,245 | 15,456 | 11,009 | 11,041 | 0 | 0 | 39,847 | 40,293 |
| Minnesota | 22,850 | 22,060 | 23,041 | 22,496 | 22,734 | 23,416 | 19 | 17 | 68,644 | 67,989 |
| Missouri | 35,316 | 34,337 | 30,514 | 30,483 | 17,551 | 17,594 | 22 | 22 | 83,404 | 82,435 |
| Nebraska | 10,062 | 9,680 | 9,387 | 9,233 | 11,251 | 11,915 | 0 | 0 | 30,701 | 30,828 |
| North Dakota | 5,039 | 4,485 | 5,685 | 5,109 | 5,309 | 5,124 | 0 | 0 | 16,033 | 14,717 |
| South Dakota | 4,824 | 4,454 | 4,662 | 4,557 | 2,724 | 2,724 | 0 | 0 | 12,210 | 11,734 |
| South Atlantic | 342,952 | 336,757 | 303,434 | 303,319 | 139,337 | 139,354 | 1,320 | 1,293 | 787,044 | 780,723 |
| Delaware | 4,570 | 4,522 | 4,158 | 4,243 | 2,620 | 2,755 | 0 | 0 | 11,348 | 11,519 |
| District of Columbia | 2,034 | 2,003 | 8,499 | 8,713 | 227 | 218 | 325 | 325 | 11,086 | 11,259 |
| Florida | 113,294 | 112,127 | 92,145 | 92,038 | 16,390 | 16,426 | 91 | 84 | 221,920 | 220,674 |
| Georgia | 53,544 | 53,660 | 45,353 | 45,937 | 31,443 | 31,225 | 156 | 157 | 130,497 | 130,979 |
| Maryland | 27,448 | 26,678 | 29,966 | 30,108 | 3,944 | 4,500 | 541 | 528 | 61,899 | 61,814 |
| North Carolina | 56,251 | 54,672 | 46,649 | 46,510 | 26,872 | 26,896 | 7 | 7 | 129,780 | 128,085 |
| South Carolina | 28,813 | 28,366 | 21,120 | 21,251 | 28,669 | 28,164 | 0 | 0 | 78,602 | 77,781 |
| Virginia | 45,416 | 43,535 | 47,751 | 46,757 | 17,150 | 17,316 | 195 | 188 | 110,512 | 107,795 |
| West Virginia | 11,582 | 11,195 | 7,794 | 7,763 | 12,021 | 11,856 | 4 | 4 | 31,400 | 30,817 |
| East South Central | 117,535 | 114,475 | 91,370 | 82,290 | 109,435 | 123,233 | 2 | 2 | 318,342 | 320,000 |
| Alabama | 31,379 | 30,632 | 22,603 | 21,799 | 33,870 | 33,751 | 0 | 0 | 87,852 | 86,183 |
| Kentucky | 26,788 | 26,097 | 21,004 | 18,756 | 36,972 | 44,196 | 0 | 0 | 84,764 | 89,048 |
| Mississippi | 18,462 | 17,993 | 14,188 | 13,585 | 16,132 | 16,810 | 0 | 0 | 48,782 | 48,388 |
| Tennessee | 40,906 | 39,754 | 33,575 | 28,150 | 22,462 | 28,476 | 2 | 2 | 96,944 | 96,381 |
| West South Central | 212,401 | 208,157 | 192,511 | 189,413 | 166,253 | 158,384 | 73 | 81 | 571,237 | 556,035 |
| Arkansas | 18,219 | 17,909 | 11,898 | 12,102 | 16,565 | 16,848 | 0 | 0 | 46,683 | 46,860 |
| Louisiana | 30,709 | 30,027 | 24,254 | 24,245 | 30,833 | 30,449 | 11 | 11 | 85,808 | 84,731 |
| Oklahoma | 23,200 | 22,810 | 19,843 | 19,961 | 16,886 | 16,570 | 0 | 0 | 59,929 | 59,341 |
| Texas | 140,273 | 137,412 | 136,516 | 133,105 | 101,968 | 94,517 | 61 | 70 | 378,817 | 365,104 |
| Mountain | 96,356 | 94,872 | 94,636 | 94,114 | 82,044 | 82,292 | 124 | 99 | 273,161 | 271,377 |
| Arizona | 33,104 | 32,923 | 30,039 | 29,692 | 12,519 | 12,448 | 0 | 0 | 75,662 | 75,063 |
| Colorado | 18,529 | 18,220 | 20,098 | 19,997 | 14,753 | 15,415 | 62 | 52 | 53,442 | 53,685 |
| Idaho | 8,619 | 8,159 | 6,250 | 5,978 | 9,338 | 9,574 | 0 | 0 | 24,208 | 23,712 |
| Montana | 4,926 | 4,778 | 4,890 | 4,918 | 4,229 | 4,168 | 0 | 0 | 14,045 | 13,863 |
| Nevada | 12,142 | 12,123 | 9,302 | 9,315 | 13,759 | 13,734 | 8 | 8 | 35,211 | 35,180 |
| New Mexico | 6,804 | 6,764 | 8,983 | 9,166 | 7,278 | 7,249 | 0 | 0 | 23,065 | 23,179 |
| Utah | 9,402 | 9,188 | 11,008 | 10,803 | 10,010 | 9,694 | 54 | 38 | 30,474 | 29,723 |
| Wyoming | 2,829 | 2,717 | 4,067 | 4,245 | 10,157 | 10,009 | 0 | 0 | 17,054 | 16,971 |
| Pacific Contiguous | 144,631 | 144,476 | 169,710 | 166,835 | 86,843 | 86,536 | 864 | 717 | 402,049 | 398,563 |
| California | 89,319 | 90,110 | 123,971 | 121,792 | 47,399 | 46,952 | 836 | 685 | 261,525 | 259,538 |
| Oregon | 19,329 | 18,855 | 16,080 | 15,804 | 12,210 | 12,006 | 22 | 25 | 47,641 | 46,689 |
| Washington | 35,983 | 35,511 | 29,659 | 29,240 | 27,235 | 27,579 | 6 | 7 | 92,883 | 92,336 |
| Pacific Noncontiguous | 4,713 | 4,899 | 6,095 | 6,113 | 4,963 | 5,043 | 0 | 0 | 15,771 | 16,056 |
| Alaska | 2,104 | 2,160 | 2,824 | 2,875 | 1,340 | 1,381 | 0 | 0 | 6,268 | 6,416 |
| Hawaii | 2,609 | 2,739 | 3,271 | 3,238 | 3,623 | 3,662 | 0 | 0 | 9,503 | 9,639 |
| U.S. Total | 1,394,890 | 1,374,515 | 1,344,192 | 1,327,101 | 978,356 | 985,714 | 7,625 | 7,320 | 3,725,064 | 3,694,650 |

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: - See Glossary for definitions. - Values are final.

See Technical Notes for a discussion of the sample design for the Form EIA-826.

Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.

Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.

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

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

Table 2.9. Revenue from Retail Sales of Electricity to Ultimate Customers by End-Use Sector, by State, 2013 and 2012 (Million Dollars)

| Census Division and State | Residential | | Commercial | | Industrial | | Transportation | | All Sectors | |
|---------------------------|-------------|-----------|------------|-----------|------------|-----------|----------------|-----------|-------------|-----------|
| | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 7,846 | 7,418 | 6,277 | 6,137 | 3,365 | 3,292 | 70 | 38 | 17,558 | 16,885 |
| Connecticut | 2,306 | 2,213 | 1,904 | 1,901 | 440 | 452 | 20 | 19 | 4,669 | 4,584 |
| Maine | 669 | 657 | 471 | 467 | 265 | 242 | 0 | 0 | 1,406 | 1,366 |
| Massachusetts | 3,282 | 3,029 | 2,521 | 2,453 | 2,169 | 2,127 | 47 | 17 | 8,020 | 7,627 |
| New Hampshire | 744 | 713 | 611 | 598 | 225 | 231 | 0 | 0 | 1,579 | 1,543 |
| Rhode Island | 481 | 450 | 474 | 432 | 109 | 99 | 3 | 2 | 1,067 | 982 |
| Vermont | 364 | 356 | 296 | 285 | 157 | 142 | 0 | 0 | 817 | 784 |
| Middle Atlantic | 21,898 | 20,195 | 20,871 | 20,395 | 5,345 | 5,206 | 486 | 489 | 48,600 | 46,285 |
| New Jersey | 4,490 | 4,524 | 4,884 | 4,899 | 817 | 816 | 32 | 28 | 10,222 | 10,267 |
| New York | 9,544 | 8,930 | 11,722 | 11,446 | 1,180 | 918 | 391 | 390 | 22,836 | 21,683 |
| Pennsylvania | 7,864 | 6,742 | 4,266 | 4,050 | 3,348 | 3,472 | 64 | 71 | 15,542 | 14,335 |
| East North Central | 22,843 | 22,730 | 17,528 | 17,336 | 13,209 | 13,164 | 36 | 39 | 53,616 | 53,269 |
| Illinois | 4,951 | 5,335 | 4,119 | 4,058 | 2,664 | 2,625 | 31 | 34 | 11,765 | 12,053 |
| Indiana | 3,673 | 3,470 | 2,328 | 2,196 | 3,202 | 3,053 | 2 | 2 | 9,205 | 8,721 |
| Michigan | 4,962 | 4,871 | 4,171 | 4,211 | 2,417 | 2,427 | 1 | 1 | 11,550 | 11,510 |
| Ohio | 6,264 | 6,148 | 4,367 | 4,429 | 3,196 | 3,328 | 3 | 2 | 13,831 | 13,908 |
| Wisconsin | 2,993 | 2,905 | 2,542 | 2,442 | 1,730 | 1,731 | 0 | 0 | 7,265 | 7,078 |
| West North Central | 12,039 | 10,888 | 9,232 | 8,446 | 6,015 | 5,733 | 4 | 3 | 27,290 | 25,069 |
| Iowa | 1,615 | 1,513 | 1,050 | 978 | 1,104 | 1,033 | 0 | 0 | 3,769 | 3,524 |
| Kansas | 1,583 | 1,551 | 1,476 | 1,427 | 814 | 783 | 0 | 0 | 3,872 | 3,761 |
| Minnesota | 2,698 | 2,504 | 2,171 | 1,989 | 1,587 | 1,531 | 2 | 2 | 6,458 | 6,025 |
| Missouri | 3,965 | 3,492 | 2,741 | 2,499 | 1,105 | 1,037 | 2 | 2 | 7,813 | 7,029 |
| Nebraska | 1,223 | 972 | 921 | 774 | 837 | 835 | 0 | 0 | 2,981 | 2,581 |
| North Dakota | 459 | 406 | 477 | 410 | 378 | 336 | 0 | 0 | 1,315 | 1,152 |
| South Dakota | 495 | 448 | 397 | 369 | 190 | 179 | 0 | 0 | 1,081 | 996 |
| South Atlantic | 39,047 | 38,314 | 28,451 | 28,421 | 9,120 | 9,129 | 114 | 109 | 76,733 | 75,973 |
| Delaware | 592 | 614 | 424 | 430 | 221 | 230 | 0 | 0 | 1,237 | 1,274 |
| District of Columbia | 256 | 246 | 1,015 | 1,048 | 13 | 12 | 31 | 29 | 1,314 | 1,335 |
| Florida | 12,770 | 12,807 | 8,653 | 8,895 | 1,247 | 1,320 | 8 | 7 | 22,678 | 23,029 |
| Georgia | 6,136 | 5,996 | 4,529 | 4,400 | 1,972 | 1,866 | 13 | 12 | 12,650 | 12,275 |
| Maryland | 3,638 | 3,425 | 3,202 | 3,141 | 330 | 364 | 46 | 44 | 7,215 | 6,974 |
| North Carolina | 6,172 | 5,963 | 4,085 | 4,030 | 1,733 | 1,727 | 1 | 1 | 11,991 | 11,721 |
| South Carolina | 3,456 | 3,338 | 2,086 | 2,046 | 1,723 | 1,696 | 0 | 0 | 7,265 | 7,080 |
| Virginia | 4,925 | 4,823 | 3,820 | 3,778 | 1,136 | 1,163 | 16 | 16 | 9,897 | 9,780 |
| West Virginia | 1,103 | 1,103 | 636 | 654 | 745 | 750 | 0 | 0 | 2,485 | 2,507 |
| East South Central | 12,228 | 11,814 | 8,964 | 8,124 | 6,544 | 7,530 | 0 | 0 | 27,737 | 27,468 |
| Alabama | 3,533 | 3,491 | 2,377 | 2,318 | 2,014 | 2,101 | 0 | 0 | 7,924 | 7,910 |
| Kentucky | 2,623 | 2,461 | 1,798 | 1,637 | 2,094 | 2,365 | 0 | 0 | 6,515 | 6,462 |
| Mississippi | 1,990 | 1,847 | 1,433 | 1,267 | 1,023 | 1,049 | 0 | 0 | 4,445 | 4,163 |
| Tennessee | 4,083 | 4,016 | 3,357 | 2,902 | 1,413 | 2,015 | 0 | 0 | 8,853 | 8,933 |
| West South Central | 22,814 | 21,435 | 15,618 | 15,131 | 9,673 | 8,529 | 7 | 8 | 48,112 | 45,104 |
| Arkansas | 1,746 | 1,665 | 957 | 934 | 1,000 | 971 | 0 | 0 | 3,704 | 3,570 |
| Louisiana | 2,895 | 2,514 | 2,174 | 1,880 | 1,825 | 1,449 | 1 | 1 | 6,896 | 5,844 |
| Oklahoma | 2,246 | 2,168 | 1,542 | 1,461 | 927 | 843 | 0 | 0 | 4,715 | 4,472 |
| Texas | 15,926 | 15,088 | 10,945 | 10,857 | 5,920 | 5,266 | 6 | 7 | 32,797 | 31,218 |
| Mountain | 10,902 | 10,378 | 8,844 | 8,464 | 5,313 | 5,083 | 13 | 10 | 25,073 | 23,935 |
| Arizona | 3,878 | 3,718 | 2,958 | 2,830 | 833 | 813 | 0 | 0 | 7,669 | 7,361 |
| Colorado | 2,210 | 2,088 | 1,982 | 1,878 | 1,083 | 1,071 | 7 | 5 | 5,282 | 5,042 |
| Idaho | 804 | 707 | 460 | 410 | 569 | 525 | 0 | 0 | 1,833 | 1,642 |
| Montana | 509 | 482 | 466 | 449 | 230 | 213 | 0 | 0 | 1,205 | 1,143 |
| Nevada | 1,444 | 1,434 | 839 | 822 | 896 | 891 | 1 | 1 | 3,180 | 3,148 |
| New Mexico | 795 | 769 | 875 | 855 | 463 | 423 | 0 | 0 | 2,132 | 2,047 |
| Utah | 975 | 912 | 916 | 870 | 588 | 545 | 6 | 4 | 2,484 | 2,331 |
| Wyoming | 287 | 268 | 349 | 350 | 652 | 603 | 0 | 0 | 1,288 | 1,221 |
| Pacific Contiguous | 19,502 | 18,699 | 21,340 | 19,885 | 7,056 | 6,735 | 74 | 52 | 47,972 | 45,370 |
| California | 14,459 | 13,822 | 17,637 | 16,327 | 5,196 | 4,925 | 71 | 49 | 37,363 | 35,123 |
| Oregon | 1,913 | 1,849 | 1,396 | 1,314 | 708 | 671 | 2 | 2 | 4,019 | 3,835 |
| Washington | 3,129 | 3,028 | 2,307 | 2,244 | 1,152 | 1,139 | 0 | 1 | 6,589 | 6,412 |
| Pacific Noncontiguous | 1,346 | 1,409 | 1,554 | 1,559 | 1,294 | 1,361 | 0 | 0 | 4,194 | 4,329 |
| Alaska | 381 | 386 | 440 | 429 | 212 | 232 | 0 | 0 | 1,033 | 1,048 |
| Hawaii | 965 | 1,023 | 1,114 | 1,130 | 1,082 | 1,129 | 0 | 0 | 3,161 | 3,281 |
| U.S. Total | 170,466 | 163,280 | 138,679 | 133,898 | 66,934 | 65,761 | 805 | 747 | 376,884 | 363,687 |

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: - See Glossary for definitions. - Values are final.

See Technical Notes for a discussion of the sample design for the Form EIA-826.

Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.

Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.

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

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

Table 2.10. Average Retail Price of Electricity to Ultimate Customers by End-Use Sector, by State, 2013 and 2012 (Cents per Kilowatthour)

| Census Division and State | Residential | | Commercial | | Industrial | | Transportation | | All Sectors | |
|---------------------------|-------------|-----------|------------|-----------|------------|-----------|----------------|-----------|-------------|-----------|
| | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 16.22 | 15.71 | 13.97 | 13.68 | 12.25 | 11.83 | 12.15 | 6.68 | 14.47 | 14.02 |
| Connecticut | 17.55 | 17.34 | 14.63 | 14.65 | 12.61 | 12.67 | 10.31 | 9.69 | 15.66 | 15.54 |
| Maine | 14.35 | 14.66 | 11.74 | 11.53 | 8.34 | 7.98 | -- | -- | 11.86 | 11.81 |
| Massachusetts | 15.83 | 14.91 | 14.23 | 13.84 | 13.18 | 12.57 | 13.06 | 4.91 | 14.51 | 13.79 |
| New Hampshire | 16.33 | 16.07 | 13.52 | 13.36 | 11.40 | 11.83 | -- | -- | 14.30 | 14.19 |
| Rhode Island | 15.20 | 14.40 | 12.92 | 11.87 | 11.82 | 10.68 | 13.03 | 8.28 | 13.72 | 12.74 |
| Vermont | 17.14 | 17.01 | 14.66 | 14.32 | 10.84 | 9.98 | -- | -- | 14.61 | 14.22 |
| Middle Atlantic | 16.39 | 15.27 | 13.23 | 12.97 | 7.27 | 7.49 | 12.23 | 12.50 | 13.18 | 12.75 |
| New Jersey | 15.73 | 15.78 | 12.77 | 12.78 | 10.80 | 10.52 | 10.60 | 9.77 | 13.69 | 13.68 |
| New York | 18.79 | 17.62 | 15.35 | 15.06 | 6.59 | 6.70 | 13.65 | 14.20 | 15.44 | 15.15 |
| Pennsylvania | 14.50 | 12.75 | 9.89 | 9.44 | 6.97 | 7.23 | 7.81 | 8.07 | 10.63 | 9.91 |
| East North Central | 12.15 | 12.05 | 9.59 | 9.46 | 6.66 | 6.51 | 5.61 | 6.33 | 9.41 | 9.27 |
| Illinois | 10.68 | 11.37 | 8.16 | 7.99 | 6.00 | 5.80 | 5.34 | 6.15 | 8.30 | 8.40 |
| Indiana | 10.99 | 10.53 | 9.60 | 9.14 | 6.70 | 6.34 | 9.87 | 9.56 | 8.73 | 8.29 |
| Michigan | 14.59 | 14.13 | 11.06 | 10.93 | 7.72 | 7.62 | 8.77 | 8.08 | 11.21 | 10.98 |
| Ohio | 12.01 | 11.76 | 9.35 | 9.47 | 6.22 | 6.24 | 6.62 | 6.98 | 9.20 | 9.12 |
| Wisconsin | 13.55 | 13.19 | 10.74 | 10.51 | 7.40 | 7.34 | -- | -- | 10.51 | 10.28 |
| West North Central | 11.32 | 10.59 | 9.14 | 8.48 | 6.67 | 6.28 | 8.73 | 7.72 | 9.17 | 8.54 |
| Iowa | 11.04 | 10.82 | 8.44 | 8.01 | 5.62 | 5.30 | -- | -- | 8.07 | 7.71 |
| Kansas | 11.64 | 11.24 | 9.68 | 9.24 | 7.39 | 7.09 | -- | -- | 9.72 | 9.33 |
| Minnesota | 11.81 | 11.35 | 9.42 | 8.84 | 6.98 | 6.54 | 9.79 | 8.67 | 9.41 | 8.86 |
| Missouri | 11.23 | 10.17 | 8.98 | 8.20 | 6.29 | 5.89 | 7.81 | 6.97 | 9.37 | 8.53 |
| Nebraska | 12.16 | 10.04 | 9.81 | 8.38 | 7.44 | 7.01 | -- | -- | 9.71 | 8.37 |
| North Dakota | 9.12 | 9.06 | 8.39 | 8.02 | 7.13 | 6.55 | -- | -- | 8.20 | 7.83 |
| South Dakota | 10.26 | 10.07 | 8.51 | 8.10 | 6.97 | 6.57 | -- | -- | 8.86 | 8.49 |
| South Atlantic | 11.39 | 11.38 | 9.38 | 9.37 | 6.55 | 6.55 | 8.64 | 8.44 | 9.75 | 9.73 |
| Delaware | 12.95 | 13.58 | 10.20 | 10.13 | 8.43 | 8.36 | -- | -- | 10.90 | 11.06 |
| District of Columbia | 12.57 | 12.28 | 11.94 | 12.02 | 5.54 | 5.46 | 9.52 | 9.01 | 11.85 | 11.85 |
| Florida | 11.27 | 11.42 | 9.39 | 9.66 | 7.61 | 8.04 | 8.69 | 8.45 | 10.22 | 10.44 |
| Georgia | 11.46 | 11.17 | 9.99 | 9.58 | 6.27 | 5.98 | 8.03 | 7.65 | 9.69 | 9.37 |
| Maryland | 13.25 | 12.84 | 10.68 | 10.43 | 8.36 | 8.09 | 8.47 | 8.29 | 11.66 | 11.28 |
| North Carolina | 10.97 | 10.91 | 8.76 | 8.66 | 6.45 | 6.42 | 7.94 | 7.88 | 9.24 | 9.15 |
| South Carolina | 11.99 | 11.77 | 9.88 | 9.63 | 6.01 | 6.02 | -- | -- | 9.24 | 9.10 |
| Virginia | 10.84 | 11.08 | 8.00 | 8.08 | 6.63 | 6.72 | 8.17 | 8.51 | 8.96 | 9.07 |
| West Virginia | 9.52 | 9.85 | 8.17 | 8.42 | 6.20 | 6.33 | 8.68 | 8.66 | 7.91 | 8.14 |
| East South Central | 10.40 | 10.32 | 9.81 | 9.87 | 5.98 | 6.11 | 11.68 | 11.28 | 8.71 | 8.58 |
| Alabama | 11.26 | 11.40 | 10.51 | 10.63 | 5.95 | 6.22 | -- | -- | 9.02 | 9.18 |
| Kentucky | 9.79 | 9.43 | 8.56 | 8.73 | 5.66 | 5.35 | -- | -- | 7.69 | 7.26 |
| Mississippi | 10.78 | 10.26 | 10.10 | 9.33 | 6.34 | 6.24 | -- | -- | 9.11 | 8.60 |
| Tennessee | 9.98 | 10.10 | 10.00 | 10.31 | 6.29 | 7.08 | 11.68 | 11.28 | 9.13 | 9.27 |
| West South Central | 10.74 | 10.30 | 8.11 | 7.99 | 5.82 | 5.39 | 10.08 | 10.30 | 8.42 | 8.11 |
| Arkansas | 9.59 | 9.30 | 8.05 | 7.71 | 6.04 | 5.76 | 11.58 | 11.23 | 7.93 | 7.62 |
| Louisiana | 9.43 | 8.37 | 8.96 | 7.75 | 5.92 | 4.76 | 9.45 | 8.72 | 8.04 | 6.90 |
| Oklahoma | 9.68 | 9.51 | 7.77 | 7.32 | 5.49 | 5.09 | -- | -- | 7.87 | 7.54 |
| Texas | 11.35 | 10.98 | 8.02 | 8.16 | 5.81 | 5.57 | 10.19 | 10.54 | 8.66 | 8.55 |
| Mountain | 11.31 | 10.94 | 9.35 | 8.99 | 6.48 | 6.18 | 10.47 | 9.62 | 9.18 | 8.82 |
| Arizona | 11.71 | 11.29 | 9.85 | 9.53 | 6.66 | 6.53 | -- | -- | 10.14 | 9.81 |
| Colorado | 11.93 | 11.46 | 9.86 | 9.39 | 7.34 | 6.95 | 10.55 | 9.69 | 9.88 | 9.39 |
| Idaho | 9.32 | 8.67 | 7.37 | 6.86 | 6.09 | 5.48 | -- | -- | 7.57 | 6.92 |
| Montana | 10.33 | 10.08 | 9.54 | 9.13 | 5.43 | 5.10 | -- | -- | 8.58 | 8.25 |
| Nevada | 11.89 | 11.83 | 9.01 | 8.83 | 6.52 | 6.48 | 8.47 | 8.40 | 9.03 | 8.95 |
| New Mexico | 11.68 | 11.37 | 9.74 | 9.32 | 6.36 | 5.83 | -- | -- | 9.25 | 8.83 |
| Utah | 10.37 | 9.93 | 8.32 | 8.06 | 5.87 | 5.62 | 10.68 | 9.79 | 8.15 | 7.84 |
| Wyoming | 10.16 | 9.85 | 8.57 | 8.24 | 6.42 | 6.03 | -- | -- | 7.55 | 7.19 |
| Pacific Contiguous | 13.48 | 12.94 | 12.57 | 11.92 | 8.13 | 7.78 | 8.54 | 7.21 | 11.93 | 11.38 |
| California | 16.19 | 15.34 | 14.23 | 13.41 | 10.96 | 10.49 | 8.54 | 7.17 | 14.29 | 13.53 |
| Oregon | 9.90 | 9.80 | 8.68 | 8.31 | 5.80 | 5.59 | 8.88 | 8.24 | 8.44 | 8.21 |
| Washington | 8.70 | 8.53 | 7.78 | 7.68 | 4.23 | 4.13 | 8.04 | 8.06 | 7.09 | 6.94 |
| Pacific Noncontiguous | 28.56 | 28.76 | 25.49 | 25.50 | 26.08 | 26.99 | -- | -- | 26.59 | 26.96 |
| Alaska | 18.12 | 17.88 | 15.58 | 14.93 | 15.83 | 16.82 | -- | -- | 16.49 | 16.33 |
| Hawaii | 36.98 | 37.34 | 34.05 | 34.88 | 29.87 | 30.82 | -- | -- | 33.26 | 34.04 |
| U.S. Total | 12.22 | 11.88 | 10.32 | 10.09 | 6.84 | 6.67 | 10.55 | 10.21 | 10.12 | 9.84 |

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: - See Glossary for definitions. - Values are final.

See Technical Notes for a discussion of the sample design for the Form EIA-826.

Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.

Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.

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

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

Table 2.11. Electric Power Industry - Electricity Purchases, 2003 through 2013 (Thousand Megawatthours)

| Year | Electric Utilities | Energy-Only Providers | Independent Power Producers | Combined Heat and Power | U.S. Total |
|------|--------------------|-----------------------|-----------------------------|-------------------------|------------|
| 2004 | 2,725,694 | 4,170,331 | 24,258 | 78,267 | 6,998,549 |
| 2005 | 2,760,043 | 3,250,298 | 12,201 | 69,744 | 6,092,285 |
| 2006 | 2,605,315 | 2,793,288 | 26,628 | 77,353 | 5,502,584 |
| 2007 | 2,504,002 | 2,805,833 | 24,942 | 76,646 | 5,411,422 |
| 2008 | 2,483,927 | 3,024,730 | 25,431 | 78,693 | 5,612,781 |
| 2009 | 2,364,648 | 2,564,407 | 27,922 | 71,669 | 5,028,647 |
| 2010 | 2,353,086 | 3,319,211 | 23,976 | 73,861 | 5,770,134 |
| 2011 | 2,245,381 | 2,679,803 | 21,844 | 77,593 | 5,024,621 |
| 2012 | 2,148,346 | 2,740,043 | 17,726 | 78,818 | 4,984,933 |
| 2013 | 2,099,528 | 2,482,928 | 16,101 | 86,420 | 4,684,977 |

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

Sources: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report" and Form EIA-923, "Power Plant Operations Report"

Table 2.12. Electric Power Industry - Electricity Sales for Resale, 2003 through 2013 (Thousand Megawatthours)

| Year | Electric Utilities | Energy-Only Providers | Independent Power Producers | Combined Heat and Power | U.S. Total |
|------|--------------------|-----------------------|-----------------------------|-------------------------|------------|
| 2003 | 1,824,030 | 3,906,220 | 1,156,796 | 33,909 | 6,920,954 |
| 2004 | 1,923,440 | 3,756,175 | 1,053,364 | 25,996 | 6,758,975 |
| 2005 | 1,925,710 | 2,867,048 | 1,252,796 | 26,105 | 6,071,659 |
| 2006 | 1,698,389 | 2,446,104 | 1,321,342 | 27,638 | 5,493,473 |
| 2007 | 1,603,179 | 2,476,740 | 1,368,310 | 31,165 | 5,479,394 |
| 2008 | 1,576,976 | 2,718,661 | 1,355,017 | 30,079 | 5,680,733 |
| 2009 | 1,495,636 | 2,240,399 | 1,295,857 | 33,139 | 5,065,031 |
| 2010 | 1,541,554 | 2,946,452 | 1,404,137 | 37,068 | 5,929,211 |
| 2011 | 1,529,434 | 2,206,981 | 1,372,306 | 34,400 | 5,143,121 |
| 2012 | 1,456,774 | 2,135,819 | 1,384,155 | 37,017 | 5,013,765 |
| 2013 | 1,472,124 | 2,036,460 | 1,298,528 | 35,396 | 4,842,508 |

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

Sources: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report" and Form EIA-923, "Power Plant Operations Report"

Table 2.13. Electric Power Industry - U.S. Electricity Imports from and Electricity Exports to Canada and Mexico, 2003-2013 (Megawatthours)

| Year | Canada | | Mexico | | U.S. Total | |
|------|--------------|------------|--------------|------------|------------|------------|
| | Imports from | Exports to | Imports from | Exports to | Imports | Exports |
| 2003 | 29,324,625 | 23,584,513 | 1,069,926 | 390,190 | 30,394,551 | 23,974,703 |
| 2004 | 33,007,487 | 22,482,109 | 1,202,576 | 415,754 | 34,210,063 | 22,897,863 |
| 2005 | 42,332,039 | 18,680,237 | 1,597,275 | 470,731 | 43,929,314 | 19,150,968 |
| 2006 | 41,544,052 | 23,405,387 | 1,147,258 | 865,948 | 42,691,310 | 24,271,335 |
| 2007 | 50,118,056 | 19,559,417 | 1,277,646 | 584,175 | 51,395,702 | 20,143,592 |
| 2008 | 55,731,229 | 23,614,158 | 1,288,152 | 584,001 | 57,019,381 | 24,198,159 |
| 2009 | 50,870,451 | 17,517,112 | 1,320,144 | 620,872 | 52,190,595 | 18,137,984 |
| 2010 | 43,763,091 | 18,481,678 | 1,320,095 | 624,502 | 45,083,186 | 19,106,180 |
| 2011 | 51,075,952 | 14,398,470 | 1,223,758 | 650,082 | 52,299,710 | 15,048,552 |
| 2012 | 57,971,110 | 11,392,267 | 1,285,959 | 603,382 | 59,257,069 | 11,995,649 |
| 2013 | 62,539,403 | 10,674,546 | 7,815,666 | 678,304 | 70,355,069 | 11,352,850 |

Sources: National Energy Board of Canada; DOE, Office of Electricity Delivery and Energy Reliability, Form OE-781R, 'Annual Report of International Electric Export/Import Data,' predecessor forms.

To estimate electricity trade with Mexico, for 2001 forward data from the California Independent System Operator are used in combination with the Form OE-781R values.

Table 2.14. Green Pricing Customers by End Use Sector, 2004 through 2012 (Table Discontinued)

| Year | Residential | Commercial | Industrial | Transportation | Total |
|------|-------------|------------|------------|----------------|-----------|
| 2004 | 864,794 | 63,189 | 289 | 61 | 928,333 |
| 2005 | 871,774 | 70,303 | 695 | -- | 942,772 |
| 2006 | 606,919 | 35,414 | 522 | 1 | 642,856 |
| 2007 | 773,391 | 61,608 | 553 | 99 | 835,651 |
| 2008 | 918,284 | 63,521 | 987 | 203 | 982,995 |
| 2009 | 1,058,185 | 64,139 | 1,454 | -- | 1,123,778 |
| 2010 | 1,137,047 | 78,128 | 1,407 | -- | 1,216,582 |
| 2011 | 1,187,867 | 89,677 | 1,440 | -- | 1,278,984 |
| 2012 | 2,162,230 | 102,223 | 1,509 | -- | 2,265,963 |

2012 was the last year this data was collected.

In 2006 the single largest provider of green pricing services in the country discontinued service in two States. More than 297,600 customers reverted to standard service tariffs, in Ohio and Pennsylvania.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

Chapter 3

Net Generation

Table 3.1.A. Net Generation by Energy Source: Total (All Sectors), 2003 - 2013
(Thousand Megawatthours)

| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Nuclear | Hydroelectric Conventional | Renewable Sources Excluding Hydroelectric | Hydroelectric Pumped Storage | Other | Total |
|----------------------|-----------|-------------------|----------------|-------------|-----------|---------|----------------------------|---|------------------------------|--------|-----------|
| Annual Totals | | | | | | | | | | | |
| 2003 | 1,973,737 | 102,734 | 16,672 | 649,908 | 15,600 | 763,733 | 275,806 | 79,487 | -8,535 | 14,045 | 3,883,185 |
| 2004 | 1,978,301 | 100,391 | 20,754 | 710,100 | 15,252 | 788,528 | 268,417 | 83,067 | -8,488 | 14,232 | 3,970,555 |
| 2005 | 2,012,873 | 99,840 | 22,385 | 760,960 | 13,464 | 781,986 | 270,321 | 87,329 | -6,558 | 12,821 | 4,055,423 |
| 2006 | 1,990,511 | 44,460 | 19,706 | 816,441 | 14,177 | 787,219 | 289,246 | 96,525 | -6,558 | 12,974 | 4,064,702 |
| 2007 | 2,016,456 | 49,505 | 16,234 | 896,590 | 13,453 | 806,425 | 247,510 | 105,238 | -6,896 | 12,231 | 4,156,745 |
| 2008 | 1,985,801 | 31,917 | 14,325 | 882,981 | 11,707 | 806,208 | 254,831 | 126,101 | -6,288 | 11,804 | 4,119,388 |
| 2009 | 1,755,904 | 25,972 | 12,964 | 920,979 | 10,632 | 798,855 | 273,445 | 144,279 | -4,627 | 11,928 | 3,950,331 |
| 2010 | 1,847,290 | 23,337 | 13,724 | 987,697 | 11,313 | 806,968 | 260,203 | 167,173 | -5,501 | 12,855 | 4,125,060 |
| 2011 | 1,733,430 | 16,086 | 14,096 | 1,013,689 | 11,566 | 790,204 | 319,355 | 193,981 | -6,421 | 14,154 | 4,100,141 |
| 2012 | 1,514,043 | 13,403 | 9,787 | 1,225,894 | 11,898 | 769,331 | 276,240 | 218,333 | -4,950 | 13,787 | 4,047,765 |
| 2013 | 1,581,115 | 13,820 | 13,344 | 1,124,836 | 12,853 | 789,016 | 268,565 | 253,508 | -4,681 | 13,588 | 4,065,964 |
| 2011 | | | | | | | | | | | |
| January | 170,803 | 1,902 | 1,555 | 74,254 | 930 | 72,743 | 25,531 | 14,742 | -659 | 1,071 | 362,872 |
| February | 138,311 | 1,217 | 1,217 | 65,924 | 807 | 64,789 | 24,131 | 16,116 | -413 | 1,027 | 313,127 |
| March | 134,845 | 1,276 | 1,416 | 65,947 | 945 | 65,662 | 31,134 | 16,650 | -349 | 1,182 | 318,710 |
| April | 124,488 | 1,459 | 965 | 70,029 | 918 | 54,547 | 31,194 | 18,125 | -466 | 1,141 | 302,401 |
| May | 137,102 | 1,356 | 1,023 | 75,243 | 875 | 57,013 | 32,587 | 17,638 | -417 | 1,210 | 323,628 |
| June | 158,055 | 1,374 | 1,220 | 90,691 | 1,013 | 65,270 | 32,151 | 17,284 | -567 | 1,236 | 367,727 |
| July | 176,586 | 1,714 | 1,440 | 119,624 | 1,098 | 72,345 | 31,285 | 14,000 | -708 | 1,309 | 418,693 |
| August | 171,281 | 1,295 | 1,299 | 119,856 | 1,087 | 71,339 | 25,764 | 14,054 | -692 | 1,230 | 406,511 |
| September | 140,941 | 1,119 | 1,305 | 91,739 | 1,004 | 66,849 | 21,378 | 13,048 | -583 | 1,132 | 337,931 |
| October | 126,627 | 1,114 | 948 | 78,819 | 941 | 63,337 | 19,787 | 16,550 | -601 | 1,176 | 308,699 |
| November | 121,463 | 1,082 | 701 | 75,441 | 943 | 64,474 | 20,681 | 18,589 | -458 | 1,187 | 304,102 |
| December | 132,929 | 1,178 | 1,007 | 86,122 | 1,005 | 71,837 | 23,732 | 17,185 | -509 | 1,254 | 335,740 |
| 2012 | | | | | | | | | | | |
| January | 129,091 | 1,180 | 1,297 | 90,761 | 1,017 | 72,381 | 23,107 | 19,906 | -348 | 1,137 | 339,528 |
| February | 113,872 | 908 | 994 | 90,610 | 1,044 | 63,847 | 20,283 | 16,996 | -237 | 1,072 | 309,389 |
| March | 105,526 | 971 | 570 | 92,251 | 1,076 | 61,729 | 25,909 | 20,200 | -281 | 1,140 | 309,091 |
| April | 96,285 | 965 | 538 | 94,829 | 1,057 | 55,871 | 26,294 | 18,563 | -265 | 1,091 | 295,228 |
| May | 115,983 | 1,079 | 651 | 107,352 | 1,002 | 62,081 | 28,643 | 18,898 | -371 | 1,200 | 336,518 |
| June | 131,261 | 1,306 | 762 | 115,598 | 972 | 65,140 | 26,659 | 18,470 | -507 | 1,166 | 360,826 |
| July | 160,450 | 1,530 | 809 | 138,863 | 1,042 | 69,129 | 26,491 | 15,725 | -619 | 1,218 | 414,640 |
| August | 152,181 | 1,202 | 916 | 131,736 | 1,050 | 69,602 | 23,034 | 15,330 | -529 | 1,178 | 395,700 |
| September | 125,589 | 978 | 882 | 108,012 | 904 | 64,511 | 17,604 | 15,401 | -431 | 1,135 | 334,585 |
| October | 120,999 | 1,061 | 744 | 91,725 | 895 | 59,743 | 16,501 | 19,225 | -378 | 1,135 | 311,651 |
| November | 128,727 | 986 | 824 | 80,169 | 875 | 56,713 | 18,732 | 18,217 | -409 | 1,140 | 305,975 |
| December | 134,079 | 1,235 | 800 | 83,989 | 963 | 68,584 | 22,984 | 21,402 | -576 | 1,176 | 334,635 |
| 2013 | | | | | | | | | | | |
| January | 138,105 | 1,733 | 1,042 | 88,559 | 1,144 | 71,406 | 24,829 | 21,518 | -465 | 1,098 | 348,967 |
| February | 123,547 | 1,130 | 867 | 80,283 | 968 | 61,483 | 20,418 | 20,330 | -320 | 1,020 | 309,728 |
| March | 130,634 | 990 | 1,007 | 84,725 | 1,070 | 62,947 | 20,534 | 22,810 | -462 | 1,143 | 325,399 |
| April | 111,835 | 995 | 891 | 78,036 | 1,020 | 56,767 | 25,097 | 23,961 | -292 | 1,024 | 299,333 |
| May | 119,513 | 1,067 | 1,345 | 83,816 | 1,088 | 62,848 | 28,450 | 23,254 | -334 | 1,110 | 322,156 |
| June | 138,283 | 1,035 | 1,307 | 99,615 | 1,048 | 66,430 | 27,384 | 20,954 | -358 | 1,125 | 356,823 |
| July | 152,867 | 1,458 | 1,354 | 120,771 | 1,148 | 70,539 | 27,255 | 18,593 | -340 | 1,201 | 394,846 |
| August | 149,426 | 1,076 | 1,372 | 121,156 | 1,143 | 71,344 | 21,633 | 17,382 | -465 | 1,217 | 385,286 |
| September | 133,110 | 964 | 1,222 | 102,063 | 1,087 | 65,799 | 16,961 | 18,991 | -439 | 1,182 | 340,941 |
| October | 120,996 | 945 | 1,074 | 88,587 | 1,072 | 63,184 | 17,199 | 21,058 | -373 | 1,185 | 314,925 |
| November | 120,940 | 989 | 850 | 84,287 | 1,060 | 64,975 | 17,677 | 23,030 | -413 | 1,143 | 314,540 |
| December | 141,860 | 1,438 | 1,013 | 92,936 | 1,006 | 71,294 | 21,128 | 21,626 | -421 | 1,141 | 353,021 |

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;

Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.1.B. Net Generation from Renewable Sources: Total (All Sectors), 2003 - 2013
(Thousand Megawatthours)

| Period | Wind | Solar Photovoltaic | Solar Thermal | Wood and Wood-Derived Fuels | Landfill Gas | Biogenic Municipal Solid Waste | Other Waste Biomass | Geothermal | Conventional Hydroelectric | Total Renewable Sources |
|----------------------|---------|--------------------|---------------|-----------------------------|--------------|--------------------------------|---------------------|------------|----------------------------|-------------------------|
| Annual Totals | | | | | | | | | | |
| 2003 | 11,187 | 2 | 532 | 37,529 | 5,077 | 8,306 | 2,428 | 14,424 | 275,806 | 355,293 |
| 2004 | 14,144 | 6 | 569 | 38,117 | 5,128 | 8,151 | 2,141 | 14,811 | 268,417 | 351,485 |
| 2005 | 17,811 | 16 | 535 | 38,856 | 5,142 | 8,330 | 1,948 | 14,692 | 270,321 | 357,651 |
| 2006 | 26,589 | 15 | 493 | 38,762 | 5,677 | 8,478 | 1,944 | 14,568 | 289,246 | 385,772 |
| 2007 | 34,450 | 16 | 596 | 39,014 | 6,158 | 8,304 | 2,063 | 14,637 | 247,510 | 352,747 |
| 2008 | 55,363 | 76 | 788 | 37,300 | 7,156 | 8,097 | 2,481 | 14,840 | 254,831 | 380,932 |
| 2009 | 73,886 | 157 | 735 | 36,050 | 7,924 | 8,058 | 2,461 | 15,009 | 273,445 | 417,724 |
| 2010 | 94,652 | 423 | 789 | 37,172 | 8,377 | 7,927 | 2,613 | 15,219 | 260,203 | 427,376 |
| 2011 | 120,177 | 1,012 | 806 | 37,449 | 9,044 | 7,354 | 2,824 | 15,316 | 319,355 | 513,336 |
| 2012 | 140,822 | 3,451 | 876 | 37,799 | 9,803 | 7,320 | 2,700 | 15,562 | 276,240 | 494,573 |
| 2013 | 167,840 | 8,121 | 915 | 40,028 | 10,658 | 7,186 | 2,986 | 15,775 | 268,565 | 522,073 |
| 2011 | | | | | | | | | | |
| January | 8,550 | 33 | 6 | 3,290 | 732 | 542 | 241 | 1,347 | 25,531 | 40,273 |
| February | 10,452 | 47 | 39 | 2,937 | 680 | 505 | 242 | 1,215 | 24,131 | 40,247 |
| March | 10,545 | 65 | 58 | 3,081 | 737 | 600 | 228 | 1,337 | 31,134 | 47,784 |
| April | 12,422 | 80 | 84 | 2,798 | 692 | 602 | 209 | 1,239 | 31,194 | 49,320 |
| May | 11,772 | 90 | 100 | 2,794 | 728 | 630 | 205 | 1,318 | 32,587 | 50,225 |
| June | 10,985 | 98 | 125 | 3,230 | 764 | 650 | 218 | 1,215 | 32,151 | 49,435 |
| July | 7,489 | 88 | 103 | 3,362 | 793 | 659 | 238 | 1,269 | 31,285 | 45,285 |
| August | 7,474 | 120 | 109 | 3,384 | 805 | 635 | 252 | 1,275 | 25,764 | 39,817 |
| September | 6,869 | 108 | 78 | 3,178 | 754 | 603 | 232 | 1,226 | 21,378 | 34,425 |
| October | 10,525 | 99 | 60 | 2,954 | 754 | 630 | 247 | 1,281 | 19,787 | 36,337 |
| November | 12,439 | 82 | 25 | 3,088 | 793 | 636 | 256 | 1,271 | 20,681 | 39,270 |
| December | 10,656 | 101 | 20 | 3,353 | 813 | 662 | 256 | 1,324 | 23,732 | 40,917 |
| 2012 | | | | | | | | | | |
| January | 13,632 | 82 | 13 | 3,314 | 806 | 589 | 206 | 1,263 | 23,107 | 43,013 |
| February | 11,052 | 106 | 29 | 3,111 | 735 | 561 | 209 | 1,193 | 20,283 | 37,279 |
| March | 14,026 | 163 | 68 | 3,034 | 801 | 597 | 226 | 1,285 | 25,909 | 46,109 |
| April | 12,709 | 223 | 96 | 2,704 | 766 | 598 | 219 | 1,248 | 26,294 | 44,858 |
| May | 12,541 | 337 | 125 | 2,937 | 804 | 633 | 217 | 1,304 | 28,643 | 47,541 |
| June | 11,972 | 391 | 136 | 3,081 | 790 | 627 | 195 | 1,277 | 26,659 | 45,128 |
| July | 8,822 | 392 | 117 | 3,352 | 855 | 651 | 216 | 1,321 | 26,491 | 42,216 |
| August | 8,469 | 369 | 93 | 3,370 | 861 | 621 | 244 | 1,304 | 23,034 | 38,364 |
| September | 8,790 | 373 | 85 | 3,227 | 808 | 600 | 218 | 1,300 | 17,604 | 33,005 |
| October | 12,636 | 365 | 66 | 3,113 | 861 | 601 | 254 | 1,329 | 16,501 | 35,726 |
| November | 11,649 | 316 | 31 | 3,190 | 827 | 604 | 253 | 1,347 | 18,732 | 36,950 |
| December | 14,524 | 333 | 16 | 3,365 | 890 | 639 | 244 | 1,390 | 22,984 | 44,385 |
| 2013 | | | | | | | | | | |
| January | 14,739 | 299 | 11 | 3,400 | 870 | 579 | 239 | 1,382 | 24,829 | 46,347 |
| February | 14,076 | 387 | 45 | 3,083 | 782 | 507 | 213 | 1,236 | 20,418 | 40,749 |
| March | 15,756 | 547 | 72 | 3,300 | 917 | 601 | 240 | 1,378 | 20,534 | 43,345 |
| April | 17,476 | 573 | 93 | 2,863 | 848 | 576 | 256 | 1,274 | 25,097 | 49,058 |
| May | 16,239 | 649 | 104 | 3,174 | 923 | 620 | 238 | 1,308 | 28,450 | 51,704 |
| June | 13,748 | 749 | 122 | 3,330 | 890 | 617 | 221 | 1,278 | 27,384 | 48,338 |
| July | 11,094 | 743 | 85 | 3,536 | 911 | 640 | 246 | 1,337 | 27,255 | 45,847 |
| August | 9,634 | 845 | 99 | 3,634 | 962 | 628 | 258 | 1,322 | 21,633 | 39,015 |
| September | 11,674 | 874 | 75 | 3,353 | 884 | 597 | 235 | 1,299 | 16,961 | 35,952 |
| October | 13,635 | 875 | 112 | 3,341 | 863 | 606 | 262 | 1,363 | 17,199 | 38,256 |
| November | 15,803 | 775 | 49 | 3,407 | 888 | 594 | 283 | 1,230 | 17,677 | 40,707 |
| December | 13,967 | 804 | 46 | 3,606 | 920 | 621 | 296 | 1,366 | 21,128 | 42,754 |

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.2.A. Net Generation by Energy Source: Electric Utilities, 2003 - 2013
(Thousand Megawatthours)

| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Nuclear | Hydroelectric Conventional | Renewable Sources Excluding Hydroelectric | Hydroelectric Pumped Storage | Other | Total |
|----------------------|-----------|-------------------|----------------|-------------|-----------|---------|----------------------------|---|------------------------------|-------|-----------|
| Annual Totals | | | | | | | | | | | |
| 2003 | 1,500,281 | 62,774 | 7,156 | 186,967 | 243 | 458,829 | 249,622 | 3,421 | -7,532 | 519 | 2,462,281 |
| 2004 | 1,513,641 | 62,196 | 11,498 | 199,662 | 374 | 475,682 | 245,546 | 3,692 | -7,526 | 467 | 2,505,231 |
| 2005 | 1,484,855 | 58,572 | 11,150 | 238,204 | 10 | 436,296 | 245,553 | 4,945 | -5,383 | 643 | 2,474,846 |
| 2006 | 1,471,421 | 31,269 | 9,634 | 282,088 | 30 | 425,341 | 261,864 | 6,588 | -5,281 | 700 | 2,483,656 |
| 2007 | 1,490,985 | 33,325 | 7,395 | 313,785 | 141 | 427,555 | 226,734 | 8,953 | -5,328 | 586 | 2,504,131 |
| 2008 | 1,466,395 | 22,206 | 5,918 | 320,190 | 46 | 424,256 | 229,645 | 11,308 | -5,143 | 545 | 2,475,367 |
| 2009 | 1,322,092 | 18,035 | 7,182 | 349,166 | 96 | 417,275 | 247,198 | 14,617 | -3,369 | 483 | 2,372,776 |
| 2010 | 1,378,028 | 17,258 | 8,807 | 392,616 | 52 | 424,843 | 236,104 | 17,927 | -4,466 | 462 | 2,471,632 |
| 2011 | 1,301,107 | 11,688 | 9,428 | 414,843 | 29 | 415,298 | 291,413 | 21,933 | -5,492 | 604 | 2,460,851 |
| 2012 | 1,146,480 | 9,892 | 5,664 | 504,958 | 0 | 394,823 | 252,936 | 28,017 | -4,202 | 603 | 2,339,172 |
| 2013 | 1,188,452 | 9,446 | 9,522 | 501,427 | 798 | 406,114 | 243,040 | 32,417 | -3,773 | 615 | 2,388,058 |
| 2011 | | | | | | | | | | | |
| January | 126,539 | 1,210 | 1,082 | 29,515 | 1 | 37,742 | 23,602 | 1,713 | -551 | 46 | 220,900 |
| February | 103,607 | 888 | 818 | 25,456 | 1 | 34,119 | 22,187 | 1,905 | -331 | 49 | 188,700 |
| March | 102,328 | 982 | 922 | 26,612 | 1 | 34,201 | 28,401 | 1,930 | -277 | 49 | 195,148 |
| April | 93,647 | 1,178 | 600 | 29,154 | 1 | 28,964 | 28,280 | 2,098 | -403 | 50 | 183,567 |
| May | 104,296 | 1,062 | 655 | 31,372 | 7 | 28,502 | 29,436 | 1,975 | -366 | 55 | 196,994 |
| June | 119,780 | 976 | 831 | 38,311 | 6 | 34,635 | 29,631 | 1,795 | -491 | 60 | 225,535 |
| July | 133,078 | 1,110 | 983 | 49,479 | 1 | 38,444 | 29,180 | 1,428 | -612 | 51 | 253,142 |
| August | 128,915 | 924 | 908 | 49,617 | 1 | 37,435 | 23,866 | 1,418 | -599 | 55 | 242,540 |
| September | 105,127 | 819 | 945 | 37,391 | 2 | 34,639 | 19,289 | 1,383 | -500 | 48 | 199,144 |
| October | 94,046 | 837 | 618 | 33,218 | 1 | 33,558 | 17,509 | 2,041 | -517 | 46 | 181,359 |
| November | 90,103 | 822 | 399 | 30,532 | 4 | 34,107 | 18,732 | 2,168 | -398 | 45 | 176,515 |
| December | 99,641 | 879 | 667 | 34,186 | 3 | 38,952 | 21,300 | 2,079 | -450 | 49 | 197,306 |
| 2012 | | | | | | | | | | | |
| January | 96,773 | 858 | 843 | 36,548 | 0 | 38,270 | 20,835 | 2,620 | -301 | 53 | 196,498 |
| February | 86,462 | 699 | 658 | 35,281 | 0 | 33,117 | 18,363 | 2,124 | -202 | 53 | 176,554 |
| March | 80,689 | 784 | 256 | 36,916 | 0 | 30,601 | 23,555 | 2,697 | -209 | 43 | 175,331 |
| April | 75,146 | 766 | 293 | 38,669 | 0 | 27,884 | 24,174 | 2,374 | -250 | 41 | 169,095 |
| May | 87,924 | 816 | 380 | 45,633 | 0 | 31,384 | 26,049 | 2,645 | -291 | 53 | 194,593 |
| June | 100,022 | 934 | 473 | 48,423 | 0 | 34,052 | 24,540 | 2,448 | -429 | 52 | 210,514 |
| July | 121,051 | 1,133 | 467 | 57,832 | 0 | 35,999 | 24,766 | 1,828 | -530 | 48 | 242,595 |
| August | 115,044 | 906 | 477 | 53,961 | 0 | 36,149 | 21,575 | 1,851 | -445 | 59 | 229,579 |
| September | 94,983 | 737 | 520 | 44,430 | 0 | 33,384 | 16,308 | 1,814 | -368 | 62 | 191,871 |
| October | 90,924 | 787 | 409 | 38,288 | 0 | 31,289 | 14,911 | 2,491 | -323 | 48 | 178,825 |
| November | 96,094 | 717 | 454 | 33,438 | 0 | 29,038 | 16,928 | 2,474 | -355 | 46 | 178,834 |
| December | 101,368 | 755 | 434 | 35,539 | 0 | 33,656 | 20,933 | 2,653 | -499 | 45 | 194,884 |
| 2013 | | | | | | | | | | | |
| January | 103,536 | 1,018 | 700 | 39,880 | 71 | 36,748 | 22,563 | 2,966 | -404 | 45 | 207,123 |
| February | 91,384 | 723 | 616 | 36,248 | 63 | 31,144 | 18,316 | 2,704 | -270 | 47 | 180,975 |
| March | 97,675 | 755 | 687 | 37,661 | 59 | 31,426 | 18,349 | 2,846 | -382 | 54 | 189,129 |
| April | 84,352 | 744 | 574 | 33,545 | 38 | 28,991 | 22,654 | 3,053 | -232 | 42 | 173,761 |
| May | 90,053 | 785 | 1,035 | 36,891 | 61 | 32,977 | 25,924 | 2,836 | -260 | 52 | 190,354 |
| June | 104,679 | 751 | 966 | 45,152 | 68 | 34,504 | 24,686 | 2,446 | -261 | 43 | 213,033 |
| July | 114,402 | 950 | 976 | 52,966 | 66 | 36,733 | 24,705 | 2,245 | -238 | 62 | 232,867 |
| August | 113,917 | 794 | 952 | 55,077 | 76 | 37,177 | 19,864 | 2,057 | -417 | 60 | 229,557 |
| September | 99,056 | 664 | 905 | 45,845 | 75 | 34,459 | 15,422 | 2,591 | -347 | 49 | 198,719 |
| October | 91,694 | 699 | 759 | 39,850 | 61 | 31,605 | 15,619 | 2,682 | -307 | 51 | 182,713 |
| November | 92,146 | 731 | 609 | 36,703 | 78 | 32,939 | 15,975 | 3,085 | -331 | 56 | 181,991 |
| December | 105,558 | 832 | 743 | 41,610 | 81 | 37,412 | 18,964 | 2,907 | -326 | 55 | 207,837 |

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

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Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.2.B. Net Generation from Renewable Sources: Electric Utilities, 2003 - 2013
(Thousand Megawatthours)

| Period | Wind | Solar Photovoltaic | Solar Thermal | Wood and Wood-Derived Fuels | Landfill Gas | Biogenic Municipal Solid Waste | Other Waste Biomass | Geothermal | Conventional Hydroelectric | Total Renewable Sources |
|----------------------|--------|--------------------|---------------|-----------------------------|--------------|--------------------------------|---------------------|------------|----------------------------|-------------------------|
| Annual Totals | | | | | | | | | | |
| 2003 | 354 | 2 | 0 | 882 | 394 | 326 | 214 | 1,249 | 249,622 | 253,043 |
| 2004 | 405 | 6 | 0 | 1,209 | 460 | 198 | 166 | 1,248 | 245,546 | 249,238 |
| 2005 | 1,046 | 16 | 0 | 1,829 | 503 | 250 | 175 | 1,126 | 245,553 | 250,499 |
| 2006 | 2,351 | 15 | 0 | 1,937 | 705 | 228 | 190 | 1,162 | 261,864 | 268,452 |
| 2007 | 4,361 | 10 | 1 | 2,226 | 751 | 240 | 226 | 1,139 | 226,734 | 235,687 |
| 2008 | 6,899 | 16 | 1 | 1,888 | 844 | 211 | 252 | 1,197 | 229,645 | 240,953 |
| 2009 | 10,348 | 28 | 1 | 1,748 | 866 | 184 | 261 | 1,182 | 247,198 | 261,815 |
| 2010 | 13,089 | 101 | 0 | 2,328 | 879 | 154 | 259 | 1,118 | 236,104 | 254,031 |
| 2011 | 17,140 | 187 | 29 | 2,023 | 957 | 165 | 295 | 1,137 | 291,413 | 313,346 |
| 2012 | 22,926 | 551 | 89 | 1,836 | 1,022 | 184 | 265 | 1,143 | 252,936 | 280,953 |
| 2013 | 26,436 | 841 | 102 | 2,534 | 1,114 | 197 | 188 | 1,005 | 243,040 | 275,457 |
| 2011 | | | | | | | | | | |
| January | 1,310 | 6 | 3 | 191 | 75 | 10 | 19 | 98 | 23,602 | 25,315 |
| February | 1,519 | 8 | 5 | 174 | 71 | 10 | 33 | 86 | 22,187 | 24,092 |
| March | 1,508 | 12 | 9 | 185 | 76 | 12 | 29 | 99 | 28,401 | 30,331 |
| April | 1,759 | 14 | 3 | 119 | 73 | 14 | 21 | 94 | 28,280 | 30,378 |
| May | 1,622 | 14 | 3 | 126 | 74 | 16 | 23 | 96 | 29,436 | 31,411 |
| June | 1,391 | 13 | 0 | 187 | 76 | 16 | 26 | 86 | 29,631 | 31,426 |
| July | 997 | 13 | 0 | 203 | 82 | 15 | 24 | 95 | 29,180 | 30,608 |
| August | 959 | 19 | 0 | 220 | 85 | 15 | 28 | 92 | 23,866 | 25,283 |
| September | 965 | 25 | 4 | 180 | 74 | 15 | 27 | 93 | 19,289 | 20,672 |
| October | 1,637 | 22 | 0 | 154 | 91 | 16 | 23 | 99 | 17,509 | 19,550 |
| November | 1,813 | 23 | 3 | 108 | 90 | 13 | 20 | 98 | 18,732 | 20,900 |
| December | 1,659 | 19 | 0 | 176 | 88 | 14 | 23 | 100 | 21,300 | 23,379 |
| 2012 | | | | | | | | | | |
| January | 2,222 | 15 | 5 | 172 | 76 | 13 | 19 | 99 | 20,835 | 23,454 |
| February | 1,745 | 18 | 3 | 158 | 76 | 12 | 20 | 92 | 18,363 | 20,487 |
| March | 2,306 | 30 | 10 | 136 | 80 | 16 | 23 | 95 | 23,555 | 26,252 |
| April | 2,022 | 37 | 12 | 92 | 85 | 17 | 22 | 87 | 24,174 | 26,547 |
| May | 2,197 | 53 | 10 | 157 | 90 | 18 | 24 | 97 | 26,049 | 28,694 |
| June | 2,019 | 69 | 9 | 132 | 84 | 14 | 27 | 92 | 24,540 | 26,987 |
| July | 1,361 | 66 | 11 | 165 | 93 | 15 | 22 | 96 | 24,766 | 26,594 |
| August | 1,370 | 59 | 8 | 184 | 94 | 17 | 24 | 96 | 21,575 | 23,426 |
| September | 1,375 | 57 | 6 | 156 | 83 | 15 | 28 | 95 | 16,308 | 18,122 |
| October | 2,078 | 51 | 7 | 124 | 92 | 17 | 23 | 99 | 14,911 | 17,402 |
| November | 2,029 | 48 | 4 | 178 | 85 | 16 | 17 | 97 | 16,928 | 19,402 |
| December | 2,203 | 48 | 4 | 182 | 85 | 14 | 16 | 99 | 20,933 | 23,586 |
| 2013 | | | | | | | | | | |
| January | 2,532 | 26 | 4 | 185 | 87 | 14 | 18 | 99 | 22,563 | 25,529 |
| February | 2,294 | 36 | 7 | 174 | 79 | 13 | 13 | 88 | 18,316 | 21,020 |
| March | 2,374 | 56 | 9 | 190 | 96 | 14 | 13 | 94 | 18,349 | 21,196 |
| April | 2,682 | 60 | 7 | 103 | 92 | 18 | 17 | 74 | 22,654 | 25,706 |
| May | 2,382 | 68 | 13 | 175 | 95 | 18 | 19 | 67 | 25,924 | 28,760 |
| June | 1,945 | 79 | 14 | 195 | 88 | 17 | 13 | 93 | 24,686 | 27,131 |
| July | 1,703 | 76 | 13 | 234 | 88 | 18 | 17 | 96 | 24,705 | 26,950 |
| August | 1,457 | 90 | 11 | 252 | 121 | 17 | 16 | 92 | 19,864 | 21,921 |
| September | 2,032 | 90 | 8 | 244 | 93 | 16 | 15 | 92 | 15,422 | 18,013 |
| October | 2,105 | 96 | 9 | 259 | 92 | 18 | 16 | 86 | 15,619 | 18,301 |
| November | 2,607 | 78 | 3 | 251 | 90 | 18 | 14 | 24 | 15,975 | 19,060 |
| December | 2,324 | 84 | 3 | 272 | 91 | 14 | 18 | 100 | 18,964 | 21,871 |

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

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Table 3.3.A. Net Generation by Energy Source: Independent Power Producers, 2003 - 2013
(Thousand Megawatthours)

| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Nuclear | Hydroelectric Conventional | Renewable Sources Excluding Hydroelectric | Hydroelectric Pumped Storage | Other | Total |
|----------------------|---------|-------------------|----------------|-------------|-----------|---------|----------------------------|---|------------------------------|-------|-----------|
| Annual Totals | | | | | | | | | | | |
| 2003 | 452,433 | 35,818 | 7,949 | 380,337 | 2,404 | 304,904 | 21,890 | 46,060 | -1,003 | 8,088 | 1,258,879 |
| 2004 | 443,547 | 33,574 | 7,410 | 427,510 | 3,194 | 312,846 | 19,518 | 48,636 | -962 | 7,856 | 1,303,129 |
| 2005 | 507,199 | 37,096 | 9,664 | 445,625 | 3,767 | 345,690 | 21,486 | 51,708 | -1,174 | 6,285 | 1,427,346 |
| 2006 | 498,316 | 10,396 | 8,409 | 452,329 | 4,223 | 361,877 | 24,390 | 59,345 | -1,277 | 6,412 | 1,424,421 |
| 2007 | 507,406 | 13,645 | 6,942 | 500,967 | 3,901 | 378,869 | 19,109 | 65,751 | -1,569 | 6,191 | 1,501,212 |
| 2008 | 502,442 | 8,021 | 6,737 | 482,182 | 3,154 | 381,952 | 23,451 | 85,776 | -1,145 | 6,414 | 1,498,982 |
| 2009 | 419,031 | 6,306 | 4,288 | 491,839 | 2,962 | 381,579 | 24,308 | 101,860 | -1,259 | 6,146 | 1,437,061 |
| 2010 | 449,709 | 5,117 | 3,497 | 508,774 | 2,915 | 382,126 | 22,351 | 120,956 | -1,035 | 6,345 | 1,500,754 |
| 2011 | 416,783 | 3,655 | 3,431 | 511,447 | 2,911 | 374,906 | 26,117 | 141,954 | -928 | 7,059 | 1,487,335 |
| 2012 | 354,076 | 2,757 | 1,758 | 627,833 | 2,984 | 374,509 | 20,923 | 160,064 | -748 | 7,030 | 1,551,186 |
| 2013 | 379,270 | 3,761 | 1,780 | 527,522 | 3,524 | 382,902 | 22,018 | 189,045 | -908 | 6,742 | 1,515,657 |
| 2011 | | | | | | | | | | | |
| January | 42,852 | 588 | 349 | 37,417 | 242 | 35,000 | 1,785 | 10,446 | -108 | 530 | 129,100 |
| February | 33,475 | 252 | 298 | 33,924 | 206 | 30,670 | 1,782 | 11,904 | -82 | 503 | 112,932 |
| March | 31,255 | 229 | 393 | 32,750 | 251 | 31,461 | 2,544 | 12,260 | -72 | 589 | 111,660 |
| April | 29,625 | 221 | 258 | 34,103 | 243 | 25,583 | 2,728 | 13,669 | -63 | 584 | 106,952 |
| May | 31,525 | 242 | 259 | 36,802 | 235 | 28,511 | 2,950 | 13,346 | -51 | 590 | 114,409 |
| June | 36,936 | 347 | 284 | 45,115 | 253 | 30,635 | 2,367 | 12,911 | -76 | 621 | 129,393 |
| July | 42,051 | 554 | 358 | 62,024 | 261 | 33,901 | 1,993 | 9,969 | -96 | 645 | 151,659 |
| August | 40,884 | 320 | 298 | 61,922 | 263 | 33,903 | 1,800 | 9,991 | -94 | 614 | 149,901 |
| September | 34,521 | 246 | 261 | 46,908 | 251 | 32,210 | 1,965 | 9,121 | -83 | 569 | 125,969 |
| October | 31,395 | 213 | 225 | 38,745 | 239 | 29,779 | 2,150 | 12,071 | -84 | 582 | 115,317 |
| November | 30,220 | 204 | 207 | 37,730 | 224 | 30,367 | 1,801 | 13,840 | -60 | 593 | 115,124 |
| December | 32,045 | 238 | 241 | 44,007 | 244 | 32,885 | 2,252 | 12,425 | -59 | 639 | 124,919 |
| 2012 | | | | | | | | | | | |
| January | 31,101 | 224 | 206 | 46,574 | 263 | 34,111 | 1,995 | 14,684 | -47 | 577 | 129,688 |
| February | 26,312 | 147 | 169 | 48,027 | 256 | 30,730 | 1,678 | 12,406 | -35 | 546 | 120,236 |
| March | 23,721 | 127 | 138 | 48,085 | 261 | 31,128 | 2,117 | 15,075 | -71 | 587 | 121,167 |
| April | 20,138 | 141 | 87 | 49,080 | 254 | 27,987 | 1,940 | 13,914 | -15 | 561 | 114,087 |
| May | 27,005 | 210 | 121 | 53,993 | 244 | 30,697 | 2,379 | 13,838 | -80 | 599 | 129,007 |
| June | 30,125 | 314 | 119 | 59,262 | 253 | 31,088 | 1,942 | 13,609 | -78 | 612 | 137,247 |
| July | 38,127 | 340 | 146 | 72,301 | 266 | 33,130 | 1,586 | 11,293 | -89 | 620 | 157,719 |
| August | 35,897 | 235 | 202 | 69,198 | 266 | 33,453 | 1,305 | 10,855 | -84 | 588 | 151,914 |
| September | 29,513 | 186 | 151 | 55,837 | 232 | 31,126 | 1,135 | 11,021 | -62 | 575 | 129,715 |
| October | 29,028 | 204 | 156 | 45,919 | 225 | 28,455 | 1,395 | 14,180 | -55 | 575 | 120,080 |
| November | 31,554 | 213 | 130 | 39,163 | 211 | 27,674 | 1,590 | 13,150 | -54 | 580 | 114,213 |
| December | 31,555 | 415 | 133 | 40,394 | 253 | 34,928 | 1,862 | 16,039 | -77 | 610 | 126,112 |
| 2013 | | | | | | | | | | | |
| January | 33,416 | 635 | 149 | 40,509 | 313 | 34,658 | 1,938 | 15,836 | -61 | 545 | 127,938 |
| February | 31,100 | 346 | 132 | 36,722 | 261 | 30,340 | 1,736 | 15,140 | -50 | 497 | 116,224 |
| March | 31,794 | 187 | 151 | 39,104 | 259 | 31,522 | 1,878 | 17,310 | -80 | 574 | 122,699 |
| April | 26,434 | 206 | 144 | 37,081 | 284 | 27,776 | 2,189 | 18,463 | -60 | 528 | 113,045 |
| May | 28,327 | 228 | 101 | 39,353 | 306 | 29,871 | 2,194 | 17,795 | -74 | 574 | 118,674 |
| June | 32,481 | 241 | 141 | 46,520 | 280 | 31,926 | 2,365 | 15,810 | -97 | 586 | 130,253 |
| July | 37,252 | 460 | 167 | 58,993 | 315 | 33,807 | 2,224 | 13,523 | -103 | 605 | 147,241 |
| August | 34,371 | 239 | 211 | 57,526 | 300 | 34,167 | 1,525 | 12,505 | -47 | 587 | 141,386 |
| September | 32,990 | 262 | 141 | 48,349 | 298 | 31,340 | 1,297 | 13,773 | -92 | 561 | 128,919 |
| October | 28,248 | 202 | 149 | 41,022 | 343 | 31,578 | 1,339 | 15,695 | -66 | 558 | 119,069 |
| November | 27,712 | 212 | 144 | 39,663 | 289 | 32,037 | 1,494 | 17,275 | -82 | 554 | 119,297 |
| December | 35,144 | 544 | 151 | 42,679 | 274 | 33,881 | 1,839 | 15,919 | -95 | 574 | 130,911 |

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;

Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.3.B. Net Generation from Renewable Sources: Independent Power Producers, 2003 - 2013
(Thousand Megawatthours)

| Period | Wind | Solar Photovoltaic | Solar Thermal | Wood and Wood-Derived Fuels | Landfill Gas | Biogenic Municipal Solid Waste | Other Waste Biomass | Geothermal | Conventional Hydroelectric | Total Renewable Sources |
|----------------------|---------|--------------------|---------------|-----------------------------|--------------|--------------------------------|---------------------|------------|----------------------------|-------------------------|
| Annual Totals | | | | | | | | | | |
| 2003 | 10,834 | 0 | 532 | 8,645 | 4,435 | 7,227 | 1,211 | 13,175 | 21,890 | 67,949 |
| 2004 | 13,739 | 0 | 569 | 8,528 | 4,377 | 6,978 | 884 | 13,563 | 19,518 | 68,154 |
| 2005 | 16,764 | 0 | 535 | 8,741 | 4,308 | 7,092 | 701 | 13,566 | 21,486 | 73,195 |
| 2006 | 24,238 | 0 | 493 | 8,404 | 4,771 | 7,259 | 774 | 13,406 | 24,390 | 83,736 |
| 2007 | 30,089 | 6 | 595 | 8,486 | 5,177 | 7,061 | 839 | 13,498 | 19,109 | 84,860 |
| 2008 | 48,464 | 60 | 787 | 8,750 | 6,057 | 6,975 | 1,040 | 13,643 | 23,451 | 109,226 |
| 2009 | 63,538 | 129 | 734 | 8,990 | 6,718 | 6,829 | 1,095 | 13,826 | 24,308 | 126,168 |
| 2010 | 81,547 | 316 | 789 | 9,118 | 7,227 | 6,742 | 1,116 | 14,101 | 22,351 | 143,306 |
| 2011 | 102,981 | 734 | 777 | 8,709 | 7,120 | 6,217 | 1,237 | 14,180 | 26,117 | 168,071 |
| 2012 | 117,822 | 2,737 | 787 | 9,214 | 7,852 | 6,056 | 1,176 | 14,419 | 20,923 | 180,987 |
| 2013 | 141,306 | 6,969 | 813 | 9,768 | 8,442 | 5,838 | 1,139 | 14,770 | 22,018 | 211,063 |
| 2011 | | | | | | | | | | |
| January | 7,237 | 25 | 3 | 789 | 576 | 459 | 108 | 1,249 | 1,785 | 12,231 |
| February | 8,929 | 34 | 34 | 712 | 532 | 433 | 101 | 1,129 | 1,782 | 13,686 |
| March | 9,032 | 47 | 49 | 713 | 577 | 516 | 89 | 1,238 | 2,544 | 14,804 |
| April | 10,657 | 58 | 81 | 586 | 542 | 515 | 85 | 1,145 | 2,728 | 16,397 |
| May | 10,145 | 66 | 97 | 634 | 574 | 524 | 85 | 1,222 | 2,950 | 16,296 |
| June | 9,590 | 72 | 125 | 749 | 605 | 549 | 93 | 1,129 | 2,367 | 15,279 |
| July | 6,489 | 64 | 103 | 845 | 625 | 557 | 111 | 1,174 | 1,993 | 11,962 |
| August | 6,512 | 89 | 109 | 818 | 633 | 531 | 115 | 1,183 | 1,800 | 11,791 |
| September | 5,900 | 75 | 74 | 736 | 598 | 504 | 101 | 1,132 | 1,965 | 11,085 |
| October | 8,882 | 70 | 60 | 653 | 589 | 528 | 108 | 1,182 | 2,150 | 14,222 |
| November | 10,618 | 55 | 22 | 691 | 624 | 536 | 120 | 1,173 | 1,801 | 15,640 |
| December | 8,990 | 78 | 20 | 783 | 644 | 565 | 121 | 1,224 | 2,252 | 14,677 |
| 2012 | | | | | | | | | | |
| January | 11,402 | 63 | 8 | 799 | 650 | 498 | 98 | 1,165 | 1,995 | 16,679 |
| February | 9,301 | 82 | 26 | 754 | 582 | 471 | 89 | 1,101 | 1,678 | 14,084 |
| March | 11,713 | 123 | 58 | 757 | 644 | 496 | 94 | 1,190 | 2,117 | 17,192 |
| April | 10,680 | 172 | 84 | 624 | 606 | 492 | 96 | 1,161 | 1,940 | 15,854 |
| May | 10,338 | 267 | 116 | 656 | 639 | 522 | 93 | 1,207 | 2,379 | 16,217 |
| June | 9,948 | 303 | 127 | 802 | 633 | 526 | 84 | 1,185 | 1,942 | 15,551 |
| July | 7,457 | 309 | 106 | 882 | 687 | 537 | 91 | 1,225 | 1,586 | 12,878 |
| August | 7,095 | 293 | 85 | 876 | 687 | 504 | 107 | 1,208 | 1,305 | 12,160 |
| September | 7,411 | 297 | 79 | 792 | 649 | 491 | 96 | 1,205 | 1,135 | 12,156 |
| October | 10,550 | 297 | 59 | 752 | 689 | 490 | 112 | 1,231 | 1,395 | 15,574 |
| November | 9,613 | 256 | 27 | 733 | 661 | 499 | 111 | 1,250 | 1,590 | 14,740 |
| December | 12,313 | 275 | 12 | 786 | 725 | 531 | 106 | 1,291 | 1,862 | 17,901 |
| 2013 | | | | | | | | | | |
| January | 12,197 | 262 | 7 | 826 | 691 | 479 | 90 | 1,283 | 1,938 | 17,775 |
| February | 11,774 | 336 | 38 | 717 | 622 | 419 | 86 | 1,148 | 1,736 | 16,875 |
| March | 13,374 | 468 | 63 | 797 | 728 | 493 | 102 | 1,284 | 1,878 | 19,188 |
| April | 14,786 | 487 | 86 | 673 | 676 | 460 | 95 | 1,201 | 2,189 | 20,652 |
| May | 13,848 | 552 | 91 | 743 | 733 | 500 | 87 | 1,241 | 2,194 | 19,989 |
| June | 11,796 | 638 | 108 | 799 | 705 | 502 | 77 | 1,185 | 2,365 | 18,176 |
| July | 9,386 | 638 | 73 | 859 | 723 | 519 | 84 | 1,241 | 2,224 | 15,746 |
| August | 8,173 | 725 | 88 | 949 | 741 | 507 | 92 | 1,231 | 1,525 | 14,030 |
| September | 9,636 | 752 | 67 | 845 | 700 | 478 | 89 | 1,207 | 1,297 | 15,070 |
| October | 11,521 | 746 | 103 | 781 | 678 | 489 | 99 | 1,278 | 1,339 | 17,035 |
| November | 13,183 | 671 | 47 | 857 | 710 | 483 | 118 | 1,206 | 1,494 | 18,769 |
| December | 11,631 | 696 | 42 | 921 | 734 | 509 | 120 | 1,266 | 1,839 | 17,758 |

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.4.A. Net Generation by Energy Source: Commercial Sector, 2003 - 2013
(Thousand Megawatthours)

| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Nuclear | Hydroelectric Conventional | Renewable Sources Excluding Hydroelectric | Hydroelectric Pumped Storage | Other | Total |
|----------------------|-------|-------------------|----------------|-------------|-----------|---------|----------------------------|---|------------------------------|-------|--------|
| Annual Totals | | | | | | | | | | | |
| 2003 | 1,206 | 416 | 8 | 3,899 | 0 | 0 | 72 | 1,302 | 0 | 594 | 7,496 |
| 2004 | 1,340 | 493 | 7 | 3,969 | 0 | 0 | 105 | 1,575 | 0 | 781 | 8,270 |
| 2005 | 1,353 | 368 | 7 | 4,249 | 0 | 0 | 86 | 1,673 | 0 | 756 | 8,492 |
| 2006 | 1,310 | 228 | 7 | 4,355 | 0 | 0 | 93 | 1,619 | 0 | 758 | 8,371 |
| 2007 | 1,371 | 180 | 9 | 4,257 | 0 | 0 | 77 | 1,614 | 0 | 764 | 8,273 |
| 2008 | 1,261 | 136 | 6 | 4,188 | 0 | 0 | 60 | 1,555 | 0 | 720 | 7,926 |
| 2009 | 1,096 | 157 | 5 | 4,225 | 0 | 0 | 71 | 1,769 | 0 | 842 | 8,165 |
| 2010 | 1,111 | 117 | 7 | 4,725 | 3 | 0 | 80 | 1,714 | 0 | 834 | 8,592 |
| 2011 | 1,049 | 86 | 3 | 5,487 | 3 | 0 | 26 | 2,476 | 0 | 950 | 10,080 |
| 2012 | 883 | 191 | 6 | 6,603 | 0 | 0 | 28 | 2,545 | 0 | 1,046 | 11,301 |
| 2013 | 839 | 118 | 5 | 7,154 | 0 | 0 | 44 | 2,956 | 0 | 1,118 | 12,234 |
| 2011 | | | | | | | | | | | |
| January | 108 | 20 | 1 | 421 | 0 | 0 | 2 | 194 | 0 | 71 | 817 |
| February | 104 | 10 | 1 | 367 | 0 | 0 | 2 | 180 | 0 | 61 | 725 |
| March | 100 | 6 | 1 | 373 | 0 | 0 | 3 | 200 | 0 | 71 | 753 |
| April | 77 | 4 | 0 | 357 | 0 | 0 | 3 | 195 | 0 | 71 | 706 |
| May | 82 | 5 | 0 | 471 | 0 | 0 | 3 | 218 | 0 | 88 | 867 |
| June | 90 | 3 | 0 | 463 | 0 | 0 | 2 | 218 | 0 | 84 | 860 |
| July | 104 | 7 | 0 | 605 | 0 | 0 | 2 | 220 | 0 | 85 | 1,023 |
| August | 94 | 7 | 0 | 571 | 0 | 0 | 2 | 225 | 0 | 87 | 985 |
| September | 84 | 7 | 0 | 487 | 0 | 0 | 2 | 208 | 0 | 83 | 870 |
| October | 65 | 6 | 0 | 438 | 0 | 0 | 2 | 204 | 0 | 84 | 799 |
| November | 62 | 6 | 0 | 437 | 0 | 0 | 2 | 208 | 0 | 84 | 800 |
| December | 78 | 5 | 1 | 499 | 0 | 0 | 2 | 207 | 0 | 81 | 874 |
| 2012 | | | | | | | | | | | |
| January | 83 | 14 | 1 | 543 | 0 | 0 | 3 | 197 | 0 | 76 | 916 |
| February | 81 | 15 | 1 | 531 | 0 | 0 | 2 | 194 | 0 | 77 | 900 |
| March | 74 | 12 | 1 | 537 | 0 | 0 | 2 | 204 | 0 | 82 | 911 |
| April | 66 | 17 | 0 | 510 | 0 | 0 | 2 | 207 | 0 | 86 | 888 |
| May | 69 | 12 | 0 | 541 | 0 | 0 | 3 | 215 | 0 | 90 | 930 |
| June | 79 | 21 | 0 | 585 | 0 | 0 | 2 | 204 | 0 | 84 | 975 |
| July | 83 | 18 | 1 | 716 | 0 | 0 | 2 | 219 | 0 | 96 | 1,135 |
| August | 81 | 18 | 1 | 620 | 0 | 0 | 2 | 228 | 0 | 96 | 1,046 |
| September | 66 | 14 | 1 | 537 | 0 | 0 | 2 | 219 | 0 | 91 | 930 |
| October | 57 | 19 | 1 | 513 | 0 | 0 | 2 | 222 | 0 | 91 | 904 |
| November | 67 | 15 | 1 | 488 | 0 | 0 | 2 | 217 | 0 | 86 | 876 |
| December | 77 | 15 | 1 | 483 | 0 | 0 | 2 | 219 | 0 | 91 | 888 |
| 2013 | | | | | | | | | | | |
| January | 89 | 19 | 1 | 562 | 0 | 0 | 4 | 222 | 0 | 85 | 981 |
| February | 81 | 14 | 1 | 512 | 0 | 0 | 4 | 202 | 0 | 74 | 888 |
| March | 78 | 7 | 1 | 574 | 0 | 0 | 4 | 241 | 0 | 90 | 995 |
| April | 63 | 7 | 0 | 541 | 0 | 0 | 4 | 235 | 0 | 95 | 946 |
| May | 69 | 8 | 0 | 546 | 0 | 0 | 5 | 256 | 0 | 97 | 981 |
| June | 75 | 7 | 0 | 593 | 0 | 0 | 5 | 253 | 0 | 93 | 1,026 |
| July | 76 | 13 | 0 | 779 | 0 | 0 | 5 | 263 | 0 | 100 | 1,236 |
| August | 71 | 7 | 1 | 697 | 0 | 0 | 4 | 267 | 0 | 101 | 1,147 |
| September | 60 | 6 | 1 | 652 | 0 | 0 | 3 | 252 | 0 | 99 | 1,073 |
| October | 49 | 7 | 1 | 550 | 0 | 0 | 2 | 258 | 0 | 96 | 961 |
| November | 60 | 8 | 0 | 525 | 0 | 0 | 2 | 248 | 0 | 92 | 936 |
| December | 68 | 16 | 1 | 623 | 0 | 0 | 3 | 259 | 0 | 95 | 1,064 |

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

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Table 3.4.B. Net Generation from Renewable Sources: Commercial Sector, 2003 - 2013
(Thousand Megawatthours)

| Period | Wind | Solar Photovoltaic | Solar Thermal | Wood and Wood-Derived Fuels | Landfill Gas | Biogenic Municipal Solid Waste | Other Waste Biomass | Geothermal | Conventional Hydroelectric | Total Renewable Sources |
|----------------------|------|--------------------|---------------|-----------------------------|--------------|--------------------------------|---------------------|------------|----------------------------|-------------------------|
| Annual Totals | | | | | | | | | | |
| 2003 | 0 | 0 | 0 | 13 | 152 | 717 | 420 | 0 | 72 | 1,374 |
| 2004 | 0 | 0 | 0 | 13 | 172 | 945 | 444 | 0 | 105 | 1,680 |
| 2005 | 0 | 0 | 0 | 16 | 218 | 953 | 486 | 0 | 86 | 1,759 |
| 2006 | 0 | 0 | 0 | 21 | 173 | 956 | 470 | 0 | 93 | 1,713 |
| 2007 | 0 | 0 | 0 | 15 | 203 | 962 | 434 | 0 | 77 | 1,691 |
| 2008 | 0 | 0 | 0 | 21 | 234 | 911 | 389 | 0 | 60 | 1,615 |
| 2009 | 0 | 0 | 0 | 20 | 318 | 1,045 | 386 | 0 | 71 | 1,839 |
| 2010 | 16 | 5 | 0 | 21 | 256 | 1,031 | 386 | 0 | 80 | 1,794 |
| 2011 | 51 | 84 | 0 | 26 | 952 | 971 | 393 | 0 | 26 | 2,502 |
| 2012 | 54 | 148 | 0 | 24 | 848 | 1,070 | 402 | 0 | 28 | 2,573 |
| 2013 | 61 | 294 | 0 | 34 | 925 | 1,149 | 493 | 0 | 44 | 3,000 |
| 2011 | | | | | | | | | | |
| January | 3 | 2 | 0 | 2 | 80 | 73 | 33 | 0 | 2 | 196 |
| February | 4 | 4 | 0 | 3 | 75 | 62 | 32 | 0 | 2 | 182 |
| March | 4 | 6 | 0 | 2 | 83 | 72 | 34 | 0 | 3 | 202 |
| April | 5 | 8 | 0 | 2 | 75 | 73 | 31 | 0 | 3 | 197 |
| May | 5 | 9 | 0 | 2 | 79 | 90 | 33 | 0 | 3 | 220 |
| June | 4 | 11 | 0 | 2 | 81 | 85 | 34 | 0 | 2 | 220 |
| July | 3 | 10 | 0 | 3 | 85 | 87 | 33 | 0 | 2 | 222 |
| August | 3 | 11 | 0 | 2 | 85 | 89 | 36 | 0 | 2 | 227 |
| September | 3 | 8 | 0 | 2 | 80 | 84 | 31 | 0 | 2 | 210 |
| October | 6 | 7 | 0 | 1 | 73 | 86 | 31 | 0 | 2 | 206 |
| November | 6 | 4 | 0 | 2 | 77 | 87 | 32 | 0 | 2 | 209 |
| December | 6 | 4 | 0 | 3 | 79 | 83 | 33 | 0 | 2 | 209 |
| 2012 | | | | | | | | | | |
| January | 6 | 4 | 0 | 2 | 73 | 77 | 35 | 0 | 3 | 200 |
| February | 5 | 5 | 0 | 2 | 70 | 78 | 34 | 0 | 2 | 196 |
| March | 5 | 9 | 0 | 2 | 70 | 85 | 33 | 0 | 2 | 206 |
| April | 5 | 13 | 0 | 2 | 69 | 88 | 31 | 0 | 2 | 210 |
| May | 4 | 16 | 0 | 2 | 68 | 92 | 33 | 0 | 3 | 218 |
| June | 4 | 18 | 0 | 2 | 66 | 85 | 29 | 0 | 2 | 206 |
| July | 3 | 16 | 0 | 2 | 68 | 98 | 31 | 0 | 2 | 221 |
| August | 3 | 15 | 0 | 2 | 74 | 98 | 36 | 0 | 2 | 230 |
| September | 3 | 18 | 0 | 2 | 70 | 93 | 33 | 0 | 2 | 221 |
| October | 5 | 15 | 0 | 2 | 73 | 93 | 34 | 0 | 2 | 225 |
| November | 5 | 11 | 0 | 2 | 75 | 88 | 37 | 0 | 2 | 219 |
| December | 5 | 9 | 0 | 2 | 72 | 93 | 37 | 0 | 2 | 222 |
| 2013 | | | | | | | | | | |
| January | 6 | 9 | 0 | 2 | 77 | 87 | 40 | 0 | 4 | 225 |
| February | 5 | 15 | 0 | 2 | 68 | 76 | 35 | 0 | 4 | 206 |
| March | 5 | 22 | 0 | 3 | 79 | 93 | 40 | 0 | 4 | 246 |
| April | 5 | 25 | 0 | 1 | 66 | 99 | 39 | 0 | 4 | 239 |
| May | 5 | 27 | 0 | 2 | 80 | 101 | 41 | 0 | 5 | 261 |
| June | 4 | 30 | 0 | 2 | 81 | 96 | 40 | 0 | 5 | 258 |
| July | 3 | 28 | 0 | 3 | 84 | 102 | 43 | 0 | 5 | 268 |
| August | 3 | 29 | 0 | 3 | 84 | 103 | 46 | 0 | 4 | 271 |
| September | 4 | 30 | 0 | 2 | 77 | 102 | 38 | 0 | 3 | 255 |
| October | 5 | 32 | 0 | 4 | 77 | 98 | 41 | 0 | 2 | 259 |
| November | 8 | 24 | 0 | 5 | 72 | 94 | 44 | 0 | 2 | 250 |
| December | 7 | 23 | 0 | 5 | 79 | 98 | 47 | 0 | 3 | 262 |

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

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Table 3.5.A. Net Generation by Energy Source: Industrial Sector, 2003 - 2013
(Thousand Megawatthours)

| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Nuclear | Hydroelectric Conventional | Renewable Sources Excluding Hydroelectric | Hydroelectric Pumped Storage | Other | Total |
|----------------------|--------|-------------------|----------------|-------------|-----------|---------|----------------------------|---|------------------------------|-------|---------|
| Annual Totals | | | | | | | | | | | |
| 2003 | 19,817 | 3,726 | 1,559 | 78,705 | 12,953 | 0 | 4,222 | 28,704 | 0 | 4,843 | 154,530 |
| 2004 | 19,773 | 4,128 | 1,839 | 78,959 | 11,684 | 0 | 3,248 | 29,164 | 0 | 5,129 | 153,925 |
| 2005 | 19,466 | 3,804 | 1,564 | 72,882 | 9,687 | 0 | 3,195 | 29,003 | 0 | 5,137 | 144,739 |
| 2006 | 19,464 | 2,567 | 1,656 | 77,669 | 9,923 | 0 | 2,899 | 28,972 | 0 | 5,103 | 148,254 |
| 2007 | 16,694 | 2,355 | 1,889 | 77,580 | 9,411 | 0 | 1,590 | 28,919 | 0 | 4,690 | 143,128 |
| 2008 | 15,703 | 1,555 | 1,664 | 76,421 | 8,507 | 0 | 1,676 | 27,462 | 0 | 4,125 | 137,113 |
| 2009 | 13,686 | 1,474 | 1,489 | 75,748 | 7,574 | 0 | 1,868 | 26,033 | 0 | 4,457 | 132,329 |
| 2010 | 18,441 | 844 | 1,414 | 81,583 | 8,343 | 0 | 1,668 | 26,576 | 0 | 5,214 | 144,082 |
| 2011 | 14,490 | 657 | 1,234 | 81,911 | 8,624 | 0 | 1,799 | 27,619 | 0 | 5,541 | 141,875 |
| 2012 | 12,603 | 563 | 2,359 | 86,500 | 8,913 | 0 | 2,353 | 27,707 | 0 | 5,108 | 146,107 |
| 2013 | 12,554 | 495 | 2,036 | 88,733 | 8,531 | 0 | 3,463 | 29,091 | 0 | 5,113 | 150,015 |
| 2011 | | | | | | | | | | | |
| January | 1,304 | 84 | 123 | 6,901 | 687 | 0 | 143 | 2,389 | 0 | 423 | 12,054 |
| February | 1,125 | 68 | 100 | 6,177 | 600 | 0 | 160 | 2,126 | 0 | 414 | 10,770 |
| March | 1,161 | 59 | 101 | 6,212 | 693 | 0 | 187 | 2,260 | 0 | 474 | 11,149 |
| April | 1,139 | 56 | 107 | 6,416 | 674 | 0 | 184 | 2,164 | 0 | 436 | 11,175 |
| May | 1,199 | 47 | 109 | 6,597 | 633 | 0 | 198 | 2,099 | 0 | 477 | 11,359 |
| June | 1,249 | 48 | 104 | 6,802 | 753 | 0 | 150 | 2,360 | 0 | 471 | 11,938 |
| July | 1,353 | 43 | 98 | 7,517 | 836 | 0 | 109 | 2,384 | 0 | 529 | 12,868 |
| August | 1,389 | 45 | 94 | 7,745 | 823 | 0 | 96 | 2,420 | 0 | 474 | 13,085 |
| September | 1,209 | 46 | 99 | 6,953 | 752 | 0 | 122 | 2,336 | 0 | 432 | 11,948 |
| October | 1,120 | 58 | 104 | 6,419 | 700 | 0 | 126 | 2,233 | 0 | 463 | 11,224 |
| November | 1,077 | 49 | 95 | 6,742 | 715 | 0 | 146 | 2,374 | 0 | 465 | 11,663 |
| December | 1,165 | 55 | 100 | 7,429 | 758 | 0 | 178 | 2,474 | 0 | 483 | 12,642 |
| 2012 | | | | | | | | | | | |
| January | 1,135 | 84 | 247 | 7,096 | 754 | 0 | 275 | 2,405 | 0 | 431 | 12,425 |
| February | 1,017 | 46 | 167 | 6,771 | 788 | 0 | 240 | 2,272 | 0 | 396 | 11,699 |
| March | 1,041 | 49 | 176 | 6,713 | 815 | 0 | 234 | 2,225 | 0 | 428 | 11,681 |
| April | 935 | 41 | 158 | 6,571 | 803 | 0 | 178 | 2,068 | 0 | 403 | 11,158 |
| May | 984 | 41 | 150 | 7,186 | 758 | 0 | 212 | 2,200 | 0 | 458 | 11,988 |
| June | 1,035 | 37 | 170 | 7,327 | 719 | 0 | 175 | 2,210 | 0 | 418 | 12,091 |
| July | 1,189 | 39 | 195 | 8,013 | 776 | 0 | 137 | 2,385 | 0 | 454 | 13,190 |
| August | 1,159 | 43 | 235 | 7,956 | 784 | 0 | 152 | 2,396 | 0 | 434 | 13,160 |
| September | 1,026 | 40 | 210 | 7,209 | 672 | 0 | 159 | 2,347 | 0 | 406 | 12,069 |
| October | 990 | 50 | 179 | 7,006 | 670 | 0 | 192 | 2,332 | 0 | 422 | 11,841 |
| November | 1,012 | 41 | 239 | 7,080 | 664 | 0 | 213 | 2,376 | 0 | 428 | 12,052 |
| December | 1,079 | 51 | 233 | 7,573 | 709 | 0 | 186 | 2,490 | 0 | 430 | 12,751 |
| 2013 | | | | | | | | | | | |
| January | 1,064 | 61 | 192 | 7,608 | 759 | 0 | 324 | 2,494 | 0 | 423 | 12,924 |
| February | 983 | 47 | 118 | 6,801 | 644 | 0 | 363 | 2,285 | 0 | 402 | 11,642 |
| March | 1,086 | 42 | 169 | 7,387 | 752 | 0 | 302 | 2,413 | 0 | 425 | 12,576 |
| April | 986 | 37 | 173 | 6,869 | 698 | 0 | 250 | 2,210 | 0 | 358 | 11,580 |
| May | 1,063 | 46 | 209 | 7,025 | 721 | 0 | 328 | 2,367 | 0 | 387 | 12,147 |
| June | 1,048 | 36 | 201 | 7,351 | 699 | 0 | 328 | 2,445 | 0 | 402 | 12,511 |
| July | 1,138 | 36 | 211 | 8,033 | 767 | 0 | 320 | 2,563 | 0 | 434 | 13,502 |
| August | 1,066 | 36 | 208 | 7,856 | 767 | 0 | 240 | 2,553 | 0 | 468 | 13,195 |
| September | 1,004 | 33 | 175 | 7,218 | 714 | 0 | 239 | 2,375 | 0 | 473 | 12,230 |
| October | 1,005 | 37 | 166 | 7,165 | 667 | 0 | 239 | 2,423 | 0 | 481 | 12,182 |
| November | 1,022 | 37 | 98 | 7,395 | 694 | 0 | 206 | 2,422 | 0 | 442 | 12,317 |
| December | 1,089 | 47 | 118 | 8,025 | 650 | 0 | 322 | 2,541 | 0 | 417 | 13,210 |

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

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Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.5.B. Net Generation from Renewable Sources: Industrial Sector, 2003 - 2013
(Thousand Megawatthours)

| Period | Wind | Solar Photovoltaic | Solar Thermal | Wood and Wood-Derived Fuels | Landfill Gas | Biogenic Municipal Solid Waste | Other Waste Biomass | Geothermal | Conventional Hydroelectric | Total Renewable Sources |
|----------------------|------|--------------------|---------------|-----------------------------|--------------|--------------------------------|---------------------|------------|----------------------------|-------------------------|
| Annual Totals | | | | | | | | | | |
| 2003 | 0 | 0 | 0 | 27,988 | 96 | 36 | 583 | 0 | 4,222 | 32,926 |
| 2004 | 0 | 0 | 0 | 28,367 | 120 | 30 | 647 | 0 | 3,248 | 32,413 |
| 2005 | 0 | 0 | 0 | 28,271 | 113 | 34 | 585 | 0 | 3,195 | 32,199 |
| 2006 | 0 | 0 | 0 | 28,400 | 29 | 35 | 509 | 0 | 2,899 | 31,872 |
| 2007 | 0 | 0 | 0 | 28,287 | 27 | 40 | 565 | 0 | 1,590 | 30,509 |
| 2008 | 0 | 0 | 0 | 26,641 | 21 | 0 | 800 | 0 | 1,676 | 29,138 |
| 2009 | 0 | 0 | 0 | 25,292 | 22 | 0 | 718 | 0 | 1,868 | 27,901 |
| 2010 | 0 | 2 | 0 | 25,706 | 15 | 0 | 853 | 0 | 1,668 | 28,244 |
| 2011 | 5 | 7 | 0 | 26,691 | 15 | 2 | 900 | 0 | 1,799 | 29,418 |
| 2012 | 19 | 14 | 0 | 26,725 | 81 | 10 | 857 | 0 | 2,353 | 30,060 |
| 2013 | 37 | 17 | 0 | 27,691 | 178 | 2 | 1,166 | 0 | 3,463 | 32,554 |
| 2011 | | | | | | | | | | |
| January | 0 | 0 | 0 | 2,307 | 1 | 0 | 81 | 0 | 143 | 2,532 |
| February | 0 | 0 | 0 | 2,048 | 1 | 0 | 76 | 0 | 160 | 2,286 |
| March | 0 | 0 | 0 | 2,181 | 1 | 0 | 77 | 0 | 187 | 2,447 |
| April | 0 | 1 | 0 | 2,090 | 1 | 0 | 71 | 0 | 184 | 2,348 |
| May | 0 | 1 | 0 | 2,033 | 1 | 0 | 64 | 0 | 198 | 2,297 |
| June | 0 | 1 | 0 | 2,292 | 1 | 0 | 65 | 0 | 150 | 2,510 |
| July | 0 | 1 | 0 | 2,312 | 1 | 0 | 70 | 0 | 109 | 2,493 |
| August | 0 | 1 | 0 | 2,343 | 1 | 1 | 74 | 0 | 96 | 2,516 |
| September | 0 | 1 | 0 | 2,260 | 1 | 0 | 73 | 0 | 122 | 2,458 |
| October | 1 | 1 | 0 | 2,146 | 1 | 0 | 85 | 0 | 126 | 2,359 |
| November | 1 | 0 | 0 | 2,286 | 1 | 0 | 84 | 0 | 146 | 2,520 |
| December | 1 | 0 | 0 | 2,392 | 1 | 0 | 79 | 0 | 178 | 2,651 |
| 2012 | | | | | | | | | | |
| January | 2 | 1 | 0 | 2,340 | 7 | 1 | 55 | 0 | 275 | 2,680 |
| February | 2 | 1 | 0 | 2,197 | 6 | 0 | 66 | 0 | 240 | 2,513 |
| March | 2 | 1 | 0 | 2,140 | 7 | 0 | 76 | 0 | 234 | 2,459 |
| April | 2 | 1 | 0 | 1,986 | 7 | 1 | 71 | 0 | 178 | 2,247 |
| May | 1 | 1 | 0 | 2,122 | 7 | 1 | 67 | 0 | 212 | 2,412 |
| June | 1 | 1 | 0 | 2,144 | 7 | 1 | 55 | 0 | 175 | 2,384 |
| July | 1 | 2 | 0 | 2,303 | 7 | 1 | 72 | 0 | 137 | 2,522 |
| August | 1 | 2 | 0 | 2,308 | 7 | 1 | 77 | 0 | 152 | 2,548 |
| September | 1 | 2 | 0 | 2,277 | 6 | 1 | 61 | 0 | 159 | 2,506 |
| October | 2 | 1 | 0 | 2,235 | 7 | 1 | 86 | 0 | 192 | 2,525 |
| November | 1 | 1 | 0 | 2,277 | 7 | 1 | 88 | 0 | 213 | 2,588 |
| December | 2 | NM | 0 | 2,394 | 8 | 1 | 84 | 0 | 186 | 2,676 |
| 2013 | | | | | | | | | | |
| January | 3 | 1 | 0 | 2,386 | 14 | 0 | 91 | 0 | 324 | 2,818 |
| February | 2 | 1 | 0 | 2,190 | 13 | 0 | 80 | 0 | 363 | 2,648 |
| March | 3 | 1 | 0 | 2,310 | 14 | 0 | 85 | 0 | 302 | 2,715 |
| April | 3 | 2 | 0 | 2,086 | 14 | 0 | 106 | 0 | 250 | 2,460 |
| May | 4 | 2 | 0 | 2,254 | 15 | 0 | 92 | 0 | 328 | 2,695 |
| June | 3 | 2 | 0 | 2,335 | 15 | 1 | 90 | 0 | 328 | 2,774 |
| July | 2 | 2 | 0 | 2,441 | 15 | 0 | 102 | 0 | 320 | 2,883 |
| August | 2 | 2 | 0 | 2,430 | 15 | 1 | 105 | 0 | 240 | 2,793 |
| September | 2 | 2 | 0 | 2,263 | 15 | 0 | 93 | 0 | 239 | 2,614 |
| October | 4 | 2 | 0 | 2,296 | 15 | 0 | 106 | 0 | 239 | 2,661 |
| November | 5 | 1 | 0 | 2,294 | 16 | 0 | 106 | 0 | 206 | 2,629 |
| December | 5 | 1 | 0 | 2,408 | 17 | 0 | 111 | 0 | 322 | 2,863 |

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

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**Table 3.6. Net Generation
by State, by Sector, 2013 and 2012 (Thousand Megawatthours)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|------------------------------|-----------------------|-----------|----------------------|--------------------|-----------|--------------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 115,436 | 120,887 | -4.5% | 3,812 | 3,278 | 104,880 | 111,191 | 1,207 | 1,178 | 5,537 | 5,240 |
| Connecticut | 35,611 | 36,118 | -1.4% | 50 | 37 | 34,599 | 35,347 | 347 | 397 | 615 | 337 |
| Maine | 14,030 | 14,429 | -2.8% | 1 | 0 | 9,106 | 10,186 | 206 | 208 | 4,717 | 4,035 |
| Massachusetts | 32,885 | 36,198 | -9.2% | 611 | 591 | 31,572 | 34,321 | 527 | 469 | 175 | 817 |
| New Hampshire | 19,779 | 19,264 | 2.7% | 2,267 | 2,017 | 17,411 | 17,170 | 70 | 49 | 30 | 29 |
| Rhode Island | 6,247 | 8,309 | -24.8% | 11 | 11 | 6,182 | 8,246 | 54 | 52 | 0 | 0 |
| Vermont | 6,885 | 6,570 | 4.8% | 872 | 623 | 6,009 | 5,920 | 3 | 3 | 0 | 23 |
| Middle Atlantic | 427,653 | 424,451 | 0.8% | 34,844 | 35,091 | 386,152 | 383,441 | 2,049 | 1,957 | 4,608 | 3,962 |
| New Jersey | 64,751 | 65,263 | -0.8% | -123 | -88 | 63,519 | 64,043 | 562 | 534 | 793 | 774 |
| New York | 136,117 | 135,768 | 0.3% | 33,860 | 34,142 | 100,185 | 99,621 | 1,132 | 1,061 | 939 | 945 |
| Pennsylvania | 226,786 | 223,420 | 1.5% | 1,106 | 1,038 | 222,449 | 219,777 | 355 | 362 | 2,876 | 2,243 |
| East North Central | 622,073 | 613,916 | 1.3% | 326,582 | 308,307 | 283,232 | 292,989 | 2,041 | 2,046 | 10,219 | 10,573 |
| Illinois | 203,005 | 197,565 | 2.8% | 11,572 | 12,424 | 188,129 | 182,021 | 644 | 492 | 2,660 | 2,628 |
| Indiana | 110,403 | 114,696 | -3.7% | 96,048 | 99,681 | 10,900 | 11,522 | 220 | 232 | 3,236 | 3,261 |
| Michigan | 105,418 | 108,166 | -2.5% | 83,171 | 80,483 | 19,873 | 25,352 | 861 | 968 | 1,512 | 1,363 |
| Ohio | 137,284 | 129,746 | 5.8% | 88,764 | 75,184 | 47,464 | 52,962 | 186 | 283 | 871 | 1,317 |
| Wisconsin | 65,963 | 63,743 | 3.5% | 47,027 | 40,535 | 16,865 | 21,132 | 130 | 72 | 1,940 | 2,004 |
| West North Central | 330,302 | 327,475 | 0.9% | 286,360 | 288,973 | 39,121 | 33,973 | 585 | 554 | 4,237 | 3,975 |
| Iowa | 56,671 | 56,675 | 0.0% | 41,933 | 43,386 | 12,403 | 11,018 | 217 | 204 | 2,118 | 2,067 |
| Kansas | 48,473 | 44,425 | 9.1% | 39,809 | 39,949 | 8,588 | 4,411 | 0 | 0 | 76 | 65 |
| Minnesota | 51,297 | 52,194 | -1.7% | 41,156 | 42,338 | 8,471 | 8,358 | 183 | 173 | 1,487 | 1,324 |
| Missouri | 91,627 | 91,804 | -0.2% | 89,217 | 88,747 | 2,186 | 2,846 | 166 | 160 | 57 | 52 |
| Nebraska | 37,105 | 34,217 | 8.4% | 35,170 | 32,783 | 1,583 | 1,072 | 18 | 18 | 333 | 345 |
| North Dakota | 35,022 | 36,125 | -3.1% | 31,044 | 31,983 | 3,812 | 4,019 | 0 | 0 | 165 | 123 |
| South Dakota | 10,109 | 12,034 | -16.0% | 8,031 | 9,786 | 2,078 | 2,248 | 0 | 0 | 0 | 0 |
| South Atlantic | 760,976 | 747,508 | 1.8% | 627,855 | 603,305 | 112,274 | 124,669 | 1,236 | 701 | 19,610 | 18,833 |
| Delaware | 7,761 | 8,634 | -10.1% | 26 | 12 | 6,772 | 7,846 | 4 | 4 | 959 | 771 |
| District of Columbia | 66 | 72 | -8.3% | 0 | 0 | 0 | 9 | 66 | 62 | 0 | 0 |
| Florida | 222,399 | 221,096 | 0.6% | 202,527 | 198,199 | 14,301 | 17,418 | 64 | 65 | 5,507 | 5,414 |
| Georgia | 120,954 | 122,306 | -1.1% | 107,083 | 100,995 | 9,120 | 16,512 | 28 | 31 | 4,723 | 4,769 |
| Maryland | 35,851 | 37,810 | -5.2% | 30 | 9 | 35,055 | 37,021 | 444 | 235 | 323 | 545 |
| North Carolina | 125,936 | 116,682 | 7.9% | 116,317 | 107,716 | 6,522 | 6,542 | 171 | 50 | 2,927 | 2,374 |
| South Carolina | 95,250 | 96,756 | -1.6% | 91,796 | 92,822 | 1,461 | 1,970 | 9 | 0 | 1,984 | 1,964 |
| Virginia | 76,897 | 70,739 | 8.7% | 63,725 | 56,188 | 10,668 | 12,309 | 451 | 253 | 2,053 | 1,989 |
| West Virginia | 75,863 | 73,413 | 3.3% | 46,351 | 47,363 | 28,376 | 25,043 | 0 | 0 | 1,136 | 1,007 |
| East South Central | 372,776 | 375,137 | -0.6% | 325,527 | 313,555 | 36,332 | 51,152 | 220 | 186 | 10,696 | 10,244 |
| Alabama | 150,573 | 152,879 | -1.5% | 115,027 | 108,425 | 31,398 | 40,206 | 0 | 0 | 4,148 | 4,247 |
| Kentucky | 89,741 | 89,950 | -0.2% | 89,098 | 89,156 | 210 | 326 | 0 | 0 | 433 | 468 |
| Mississippi | 52,810 | 54,584 | -3.3% | 45,413 | 41,077 | 4,580 | 10,505 | 23 | 22 | 2,794 | 2,980 |
| Tennessee | 79,652 | 77,724 | 2.5% | 75,989 | 74,897 | 144 | 114 | 198 | 164 | 3,321 | 2,548 |
| West South Central | 669,387 | 676,122 | -1.0% | 252,255 | 248,120 | 342,730 | 355,233 | 887 | 768 | 73,515 | 72,002 |
| Arkansas | 60,322 | 65,006 | -7.2% | 46,548 | 44,190 | 11,901 | 18,867 | 6 | 6 | 1,868 | 1,942 |
| Louisiana | 102,010 | 103,408 | -1.4% | 56,226 | 52,048 | 15,458 | 23,325 | 203 | 45 | 30,123 | 27,990 |
| Oklahoma | 73,674 | 77,897 | -5.4% | 53,349 | 56,746 | 19,588 | 20,286 | NM | 10 | 792 | 855 |
| Texas | 433,380 | 429,813 | 0.8% | 96,132 | 95,135 | 295,783 | 292,756 | 734 | 707 | 40,731 | 41,215 |
| Mountain | 376,452 | 367,566 | 2.4% | 297,549 | 289,964 | 75,172 | 73,862 | 462 | 357 | 3,269 | 3,383 |
| Arizona | 113,326 | 110,905 | 2.2% | 92,741 | 92,800 | 20,428 | 17,791 | 157 | 121 | 0 | 193 |
| Colorado | 52,937 | 52,557 | 0.7% | 42,509 | 41,539 | 10,331 | 10,920 | 34 | 25 | 64 | 72 |
| Idaho | 15,186 | 15,499 | -2.0% | 9,600 | 10,633 | 4,976 | 4,274 | 0 | 0 | 609 | 592 |
| Montana | 27,687 | 27,805 | -0.4% | 7,362 | 8,486 | 20,310 | 19,310 | 0 | 0 | 15 | 9 |
| Nevada | 36,444 | 35,173 | 3.6% | 27,888 | 24,186 | 8,207 | 10,631 | 98 | 92 | 251 | 264 |
| New Mexico | 35,871 | 36,636 | -2.1% | 29,833 | 30,705 | 5,947 | 5,850 | 89 | 81 | 2 | 0 |
| Utah | 42,517 | 39,403 | 7.9% | 39,527 | 36,386 | 1,853 | 1,957 | 84 | 38 | 1,053 | 1,022 |
| Wyoming | 52,483 | 49,589 | 5.8% | 48,089 | 45,228 | 3,120 | 3,128 | 0 | 0 | 1,274 | 1,232 |
| Pacific Contiguous | 374,146 | 377,287 | -0.8% | 221,675 | 236,204 | 131,756 | 120,728 | 2,886 | 2,974 | 17,828 | 17,380 |
| California | 200,077 | 199,519 | 0.3% | 78,408 | 82,486 | 103,107 | 98,738 | 2,762 | 2,894 | 15,800 | 15,400 |
| Oregon | 59,896 | 60,933 | -1.7% | 43,254 | 47,144 | 15,948 | 13,102 | 98 | 73 | 595 | 613 |
| Washington | 114,173 | 116,835 | -2.3% | 100,014 | 106,574 | 12,701 | 8,888 | 26 | 7 | 1,433 | 1,366 |
| Pacific Noncontiguous | 16,764 | 17,416 | -3.7% | 11,600 | 12,375 | 4,007 | 3,949 | 660 | 579 | 497 | 513 |
| Alaska | 6,497 | 6,946 | -6.5% | 5,852 | 6,362 | 234 | 220 | 300 | 278 | 111 | 87 |
| Hawaii | 10,267 | 10,469 | -1.9% | 5,748 | 6,013 | 3,773 | 3,729 | 360 | 301 | 386 | 426 |
| U.S. Total | 4,065,964 | 4,047,765 | 0.4% | 2,388,058 | 2,339,172 | 1,515,657 | 1,551,186 | 12,234 | 11,301 | 150,015 | 146,107 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 3.7. Net Generation from Coal
by State, by Sector, 2013 and 2012 (Thousand Megawatthours)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|------------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 6,166 | 4,103 | 50.3% | 1,464 | 1,268 | 4,650 | 2,793 | 0 | 0 | 53 | 42 |
| Connecticut | 681 | 653 | 4.3% | 0 | 0 | 681 | 653 | 0 | 0 | 0 | 0 |
| Maine | 63 | 45 | 38.7% | 0 | 0 | 35 | 30 | 0 | 0 | 28 | 15 |
| Massachusetts | 3,959 | 2,137 | 85.3% | 0 | 0 | 3,934 | 2,110 | 0 | 0 | 25 | 27 |
| New Hampshire | 1,464 | 1,268 | 15.4% | 1,464 | 1,268 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 95,162 | 93,597 | 1.7% | 15 | 36 | 94,355 | 92,867 | 18 | 11 | 773 | 683 |
| New Jersey | 2,022 | 1,897 | 6.5% | 0 | 0 | 2,022 | 1,897 | 0 | 0 | 0 | 0 |
| New York | 4,697 | 4,551 | 3.2% | 15 | 36 | 4,375 | 4,200 | 0 | 0 | 307 | 315 |
| Pennsylvania | 88,443 | 87,148 | 1.5% | 0 | 0 | 87,959 | 86,769 | 18 | 11 | 466 | 368 |
| East North Central | 372,100 | 344,771 | 7.9% | 271,646 | 250,318 | 97,208 | 91,071 | 262 | 308 | 2,984 | 3,075 |
| Illinois | 87,927 | 80,827 | 8.8% | 10,918 | 10,887 | 75,282 | 68,154 | 51 | 52 | 1,675 | 1,734 |
| Indiana | 92,672 | 92,461 | 0.2% | 87,229 | 86,532 | 5,309 | 5,747 | 116 | 133 | 18 | 49 |
| Michigan | 56,291 | 53,136 | 5.9% | 55,616 | 52,471 | 334 | 343 | 91 | 118 | 250 | 204 |
| Ohio | 94,564 | 85,589 | 10.5% | 78,059 | 68,519 | 16,282 | 16,827 | 3 | 2 | 220 | 240 |
| Wisconsin | 40,645 | 32,758 | 24.1% | 39,824 | 31,909 | 0 | 0 | 1 | 2 | 820 | 848 |
| West North Central | 219,787 | 214,964 | 2.2% | 216,345 | 211,689 | 30 | 0 | 242 | 228 | 3,169 | 3,048 |
| Iowa | 33,302 | 35,331 | -5.7% | 31,194 | 33,179 | 0 | 0 | 150 | 159 | 1,958 | 1,993 |
| Kansas | 29,767 | 27,983 | 6.4% | 29,767 | 27,983 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 23,518 | 22,723 | 3.5% | 22,790 | 22,107 | 0 | 0 | 0 | 0 | 728 | 616 |
| Missouri | 76,105 | 72,775 | 4.6% | 75,933 | 72,661 | 30 | 0 | 92 | 68 | 49 | 46 |
| Nebraska | 26,767 | 25,019 | 7.0% | 26,434 | 24,686 | 0 | 0 | 0 | 0 | 333 | 334 |
| North Dakota | 27,478 | 28,214 | -2.6% | 27,377 | 28,155 | 0 | 0 | 0 | 0 | 101 | 60 |
| South Dakota | 2,849 | 2,919 | -2.4% | 2,849 | 2,919 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 268,583 | 266,385 | 0.8% | 219,054 | 219,174 | 47,260 | 44,770 | 45 | 48 | 2,224 | 2,393 |
| Delaware | 1,545 | 1,423 | 8.6% | 0 | 0 | 1,545 | 1,423 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 46,343 | 44,286 | 4.6% | 44,743 | 42,603 | 1,400 | 1,451 | 0 | 0 | 199 | 233 |
| Georgia | 40,233 | 40,715 | -1.2% | 39,768 | 40,197 | 0 | 0 | 0 | 0 | 465 | 518 |
| Maryland | 15,538 | 16,185 | -4.0% | 0 | 0 | 15,395 | 16,005 | 4 | 10 | 140 | 169 |
| North Carolina | 47,072 | 50,932 | -7.6% | 44,974 | 48,888 | 1,778 | 1,745 | 34 | 29 | 287 | 270 |
| South Carolina | 24,407 | 28,396 | -14.0% | 24,248 | 28,208 | 0 | 26 | 0 | 0 | 159 | 161 |
| Virginia | 21,161 | 14,181 | 49.2% | 19,736 | 12,573 | 891 | 970 | 7 | 9 | 527 | 628 |
| West Virginia | 72,284 | 70,267 | 2.9% | 45,585 | 46,704 | 26,252 | 23,150 | 0 | 0 | 447 | 413 |
| East South Central | 171,541 | 171,000 | 0.3% | 167,204 | 166,844 | 2,925 | 2,789 | 26 | 20 | 1,387 | 1,347 |
| Alabama | 47,050 | 45,607 | 3.2% | 46,860 | 45,378 | 0 | 32 | 0 | 0 | 191 | 197 |
| Kentucky | 83,303 | 82,762 | 0.7% | 83,303 | 82,762 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 8,701 | 7,212 | 20.7% | 5,777 | 4,455 | 2,925 | 2,757 | 0 | 0 | 0 | 0 |
| Tennessee | 32,486 | 35,419 | -8.3% | 31,264 | 34,249 | 0 | 0 | 26 | 20 | 1,196 | 1,150 |
| West South Central | 232,137 | 217,243 | 6.9% | 124,738 | 119,496 | 106,932 | 97,271 | 0 | 0 | 467 | 476 |
| Arkansas | 31,889 | 28,431 | 12.2% | 27,822 | 23,979 | 3,981 | 4,353 | 0 | 0 | 86 | 99 |
| Louisiana | 20,844 | 21,422 | -2.7% | 9,843 | 11,163 | 11,001 | 10,258 | 0 | 0 | 0 | 0 |
| Oklahoma | 29,999 | 29,302 | 2.4% | 27,746 | 27,142 | 1,873 | 1,783 | 0 | 0 | 381 | 377 |
| Texas | 149,404 | 138,088 | 8.2% | 59,327 | 57,211 | 90,077 | 80,877 | 0 | 0 | 0 | 0 |
| Mountain | 202,289 | 191,985 | 5.4% | 184,037 | 174,807 | 17,193 | 16,083 | 0 | 0 | 1,060 | 1,095 |
| Arizona | 43,492 | 40,116 | 8.4% | 43,492 | 39,930 | 0 | 0 | 0 | 0 | 0 | 185 |
| Colorado | 33,703 | 34,521 | -2.4% | 33,584 | 34,371 | 112 | 142 | 0 | 0 | 7 | 8 |
| Idaho | 92 | 77 | 19.4% | 0 | 0 | 0 | 0 | 0 | 0 | 92 | 77 |
| Montana | 14,880 | 13,987 | 6.4% | 298 | 253 | 14,572 | 13,726 | 0 | 0 | 10 | 9 |
| Nevada | 5,255 | 4,079 | 28.8% | 3,863 | 2,964 | 1,391 | 1,115 | 0 | 0 | 0 | 0 |
| New Mexico | 24,145 | 24,994 | -3.4% | 24,145 | 24,994 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 34,285 | 30,799 | 11.3% | 33,382 | 29,976 | 413 | 418 | 0 | 0 | 489 | 405 |
| Wyoming | 46,437 | 43,412 | 7.0% | 45,271 | 42,317 | 704 | 684 | 0 | 0 | 461 | 411 |
| Pacific Contiguous | 11,323 | 7,772 | 45.7% | 3,759 | 2,634 | 7,173 | 4,733 | 0 | 0 | 391 | 405 |
| California | 823 | 1,375 | -40.1% | 0 | 0 | 469 | 1,005 | 0 | 0 | 354 | 371 |
| Oregon | 3,759 | 2,634 | 42.7% | 3,759 | 2,634 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 6,740 | 3,763 | 79.1% | 0 | 0 | 6,704 | 3,728 | 0 | 0 | 37 | 35 |
| Pacific Noncontiguous | 2,028 | 2,222 | -8.7% | 191 | 215 | 1,545 | 1,699 | 246 | 268 | 46 | 40 |
| Alaska | 625 | 685 | -8.8% | 191 | 215 | 188 | 201 | 246 | 268 | 0 | 0 |
| Hawaii | 1,404 | 1,537 | -8.7% | 0 | 0 | 1,357 | 1,498 | 0 | 0 | 46 | 40 |
| U.S. Total | 1,581,115 | 1,514,043 | 4.4% | 1,188,452 | 1,146,480 | 379,270 | 354,076 | 839 | 883 | 12,554 | 12,603 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 3.8. Net Generation from Petroleum Liquids
by State, by Sector, 2013 and 2012 (Thousand Megawatthours)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|------------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 1,096 | 413 | 165.3% | 154 | 52 | 841 | 267 | 65 | 49 | 36 | 45 |
| Connecticut | 306 | 112 | 173.9% | 6 | 4 | 296 | 104 | 2 | 0 | 2 | 4 |
| Maine | 239 | 84 | 185.5% | 1 | 0 | 204 | 65 | 2 | 2 | 32 | 16 |
| Massachusetts | 390 | 174 | 123.7% | 71 | 15 | 287 | 98 | 31 | 37 | 1 | 25 |
| New Hampshire | 105 | 22 | 382.7% | 62 | 20 | 28 | 0 | 14 | 2 | 0 | 0 |
| Rhode Island | 51 | 18 | 182.8% | 11 | 11 | 26 | 0 | NM | 7 | 0 | 0 |
| Vermont | 5 | 3 | 49.2% | 4 | 2 | 0 | 0 | 1 | 1 | 0 | 0 |
| Middle Atlantic | 1,417 | 859 | 64.9% | 471 | 324 | 835 | 438 | 20 | 24 | 91 | 73 |
| New Jersey | 107 | 30 | 252.4% | 0 | 4 | 100 | 24 | 1 | 1 | 6 | 2 |
| New York | 1,007 | 580 | 73.6% | 470 | 319 | 444 | 169 | 17 | 22 | 77 | 70 |
| Pennsylvania | 302 | 248 | 21.8% | 0 | 0 | 291 | 245 | 2 | 2 | 9 | 2 |
| East North Central | 597 | 621 | -3.9% | 479 | 516 | 102 | 90 | 3 | 3 | 14 | 13 |
| Illinois | 72 | 71 | 1.5% | 25 | 24 | 47 | 47 | 0 | 0 | 0 | 0 |
| Indiana | 139 | 114 | 21.5% | 131 | 108 | 0 | 0 | 1 | 0 | 7 | 6 |
| Michigan | 130 | 138 | -6.1% | 126 | 134 | 0 | 0 | 1 | 2 | 3 | 3 |
| Ohio | 227 | 258 | -12.2% | 172 | 215 | 52 | 41 | 0 | 0 | 3 | 2 |
| Wisconsin | 29 | 39 | -25.4% | 25 | 35 | 2 | 2 | 0 | 0 | 1 | 1 |
| West North Central | 295 | 292 | 1.1% | 287 | 282 | 4 | 7 | 2 | 1 | 2 | 3 |
| Iowa | 69 | 89 | -22.5% | 68 | 87 | 1 | 2 | 0 | 0 | 0 | 0 |
| Kansas | 51 | 35 | 48.1% | 51 | 35 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 27 | 30 | -8.2% | 21 | 23 | 3 | 4 | 2 | 1 | 1 | 1 |
| Missouri | 65 | 78 | -15.8% | 65 | 78 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 43 | 23 | 88.5% | 43 | 23 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 33 | 33 | -0.1% | 33 | 32 | 0 | 0 | 0 | 0 | 1 | 1 |
| South Dakota | 7 | 6 | 22.3% | 7 | 5 | 0 | 1 | 0 | 0 | 0 | 0 |
| South Atlantic | 1,562 | 1,756 | -11.1% | 1,182 | 1,340 | 247 | 257 | 21 | 19 | 112 | 141 |
| Delaware | 23 | 22 | 6.0% | 0 | 1 | 23 | 21 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 9 | -100.0% | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| Florida | 498 | 720 | -30.9% | 474 | 670 | 4 | 9 | 0 | 0 | 20 | 41 |
| Georgia | 68 | 73 | -8.0% | 20 | 27 | 1 | 2 | 2 | 1 | 45 | 43 |
| Maryland | 190 | 137 | 38.1% | 21 | 6 | 148 | 108 | 19 | 16 | 1 | 8 |
| North Carolina | 218 | 178 | 22.1% | 202 | 160 | 5 | 6 | 0 | 0 | 10 | 12 |
| South Carolina | 103 | 108 | -4.7% | 91 | 99 | 3 | 2 | 0 | 0 | 9 | 8 |
| Virginia | 313 | 364 | -13.9% | 226 | 234 | 61 | 100 | 1 | 1 | 26 | 29 |
| West Virginia | 150 | 143 | 4.4% | 147 | 143 | 3 | 1 | 0 | 0 | 0 | 0 |
| East South Central | 325 | 378 | -14.1% | 304 | 339 | 1 | 1 | 0 | 0 | 20 | 38 |
| Alabama | 74 | 110 | -32.4% | 58 | 74 | 1 | 1 | 0 | 0 | 16 | 34 |
| Kentucky | 107 | 107 | -0.6% | 107 | 107 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 14 | 17 | -18.1% | 11 | 13 | 0 | 0 | 0 | 0 | 3 | 4 |
| Tennessee | 130 | 144 | -9.7% | 129 | 144 | 0 | 0 | 0 | 0 | 1 | 0 |
| West South Central | 198 | 173 | 14.7% | 72 | 66 | 107 | 94 | 0 | 1 | 19 | 12 |
| Arkansas | 42 | 33 | 28.0% | 26 | 18 | 15 | 13 | 0 | 0 | 1 | 1 |
| Louisiana | 54 | 38 | 42.9% | 11 | 10 | 27 | 19 | 0 | 0 | 16 | 9 |
| Oklahoma | 10 | 11 | -6.7% | 9 | 11 | 0 | 0 | NM | 0 | 1 | 0 |
| Texas | 92 | 91 | 0.9% | 26 | 27 | 65 | 62 | 0 | 1 | 2 | 2 |
| Mountain | 210 | 222 | -5.7% | 190 | 197 | 19 | 20 | 0 | 0 | 0 | 6 |
| Arizona | 43 | 42 | 2.5% | 43 | 41 | 0 | 0 | 0 | 0 | 0 | 1 |
| Colorado | 10 | 11 | -7.7% | 10 | 11 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | 100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 15 | 13 | 13.5% | 2 | 0 | 12 | 13 | 0 | 0 | 0 | 0 |
| Nevada | 19 | 19 | 0.1% | 15 | 13 | 4 | 6 | 0 | 0 | 0 | 0 |
| New Mexico | 58 | 46 | 25.4% | 56 | 46 | 2 | 1 | 0 | 0 | 0 | 0 |
| Utah | 26 | 40 | -34.6% | 25 | 39 | 1 | 1 | 0 | 0 | 0 | 0 |
| Wyoming | 39 | 52 | -24.2% | 39 | 48 | 0 | 0 | 0 | 0 | 0 | 4 |
| Pacific Contiguous | 79 | 167 | -52.9% | 41 | 45 | 16 | 21 | 2 | 86 | 20 | 14 |
| California | 48 | 134 | -64.2% | 32 | 34 | 6 | 13 | 1 | 86 | 8 | 2 |
| Oregon | 6 | 6 | 3.8% | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 24 | 27 | -8.8% | 3 | 5 | 9 | 9 | 1 | 0 | 11 | 13 |
| Pacific Noncontiguous | 8,041 | 8,521 | -5.6% | 6,266 | 6,732 | 1,590 | 1,561 | 6 | 8 | 180 | 219 |
| Alaska | 819 | 1,038 | -21.1% | 770 | 986 | 0 | 0 | 4 | 7 | 44 | 45 |
| Hawaii | 7,223 | 7,483 | -3.5% | 5,495 | 5,746 | 1,590 | 1,561 | 2 | 1 | 136 | 174 |
| U.S. Total | 13,820 | 13,403 | 3.1% | 9,446 | 9,892 | 3,761 | 2,757 | 118 | 191 | 495 | 563 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.9. Net Generation from Petroleum Coke by State, by Sector, 2013 and 2012 (Thousand Megawatthours)

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Connecticut | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Hampshire | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 212 | 76 | 181.0% | 0 | 0 | 0 | 0 | 0 | 0 | 212 | 76 |
| New Jersey | 55 | 40 | 35.1% | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 40 |
| New York | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | 158 | 35 | 348.5% | 0 | 0 | 0 | 0 | 0 | 0 | 158 | 35 |
| East North Central | 3,269 | 2,320 | 40.9% | 1,692 | 887 | 1,210 | 1,093 | 0 | 0 | 366 | 340 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 1,433 | 831 | 72.4% | 1,433 | 831 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 403 | 187 | 115.5% | 198 | 0 | 70 | 73 | 0 | 0 | 134 | 114 |
| Ohio | 1,159 | 1,023 | 13.3% | 0 | 0 | 1,140 | 1,020 | 0 | 0 | NM | 3 |
| Wisconsin | 274 | 279 | -1.7% | 61 | 55 | 0 | 0 | 0 | 0 | 213 | 223 |
| West North Central | 72 | 17 | 316.2% | 0 | 12 | 0 | 0 | 5 | 6 | 67 | 0 |
| Iowa | 72 | 18 | 312.9% | 0 | 12 | 0 | 0 | 5 | 6 | 67 | 0 |
| Kansas | 0 | 0 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 2,270 | 950 | 138.9% | 2,063 | 646 | 0 | 0 | 0 | 0 | 207 | 305 |
| Delaware | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 2,063 | 646 | 219.4% | 2,063 | 646 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 207 | 305 | -31.9% | 0 | 0 | 0 | 0 | 0 | 0 | 207 | 305 |
| Maryland | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 1,302 | 1,429 | -8.9% | 1,302 | 1,429 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 1,302 | 1,429 | -8.9% | 1,302 | 1,429 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 5,749 | 4,385 | 31.1% | 4,465 | 2,691 | 101 | 55 | 0 | 0 | 1,183 | 1,639 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 4,891 | 2,992 | 63.5% | 4,465 | 2,691 | 0 | 0 | 0 | 0 | 426 | 301 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 859 | 1,393 | -38.4% | 0 | 0 | 101 | 55 | 0 | 0 | 757 | 1,337 |
| Mountain | 448 | 454 | -1.4% | 0 | 0 | 448 | 454 | 0 | 0 | 0 | 0 |
| Arizona | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 448 | 454 | -1.4% | 0 | 0 | 448 | 454 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 21 | 156 | -86.6% | 0 | 0 | 21 | 156 | 0 | 0 | 0 | 0 |
| California | 21 | 156 | -86.6% | 0 | 0 | 21 | 156 | 0 | 0 | 0 | 0 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 13,344 | 9,787 | 36.3% | 9,522 | 5,664 | 1,780 | 1,758 | 5 | 6 | 2,036 | 2,359 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 3.10. Net Generation from Natural Gas
by State, by Sector, 2013 and 2012 (Thousand Megawatthours)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|------------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 52,153 | 62,490 | -16.5% | 240 | 345 | 48,333 | 58,757 | 852 | 901 | 2,728 | 2,488 |
| Connecticut | 15,780 | 16,537 | -4.6% | 9 | 6 | 14,863 | 15,801 | 296 | 397 | 612 | 333 |
| Maine | 4,873 | 6,044 | -19.4% | 0 | 0 | 2,906 | 4,057 | 26 | 26 | 1,941 | 1,960 |
| Massachusetts | 21,257 | 24,672 | -13.8% | 204 | 278 | 20,434 | 23,812 | 474 | 416 | 145 | 166 |
| New Hampshire | 4,100 | 7,050 | -41.8% | 25 | 58 | 4,030 | 6,947 | 16 | 16 | 30 | 29 |
| Rhode Island | 6,139 | 8,185 | -25.0% | 0 | 0 | 6,099 | 8,140 | 40 | 45 | 0 | 0 |
| Vermont | 3 | 3 | 19.3% | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 131,369 | 140,809 | -6.7% | 13,352 | 13,508 | 115,301 | 124,893 | 996 | 909 | 1,720 | 1,500 |
| New Jersey | 27,077 | 28,285 | -4.3% | 39 | 33 | 26,449 | 27,578 | 174 | 192 | 415 | 481 |
| New York | 54,354 | 59,462 | -8.6% | 13,310 | 13,472 | 40,093 | 45,132 | 710 | 605 | 242 | 253 |
| Pennsylvania | 49,938 | 53,062 | -5.9% | 3 | 3 | 48,759 | 52,182 | 113 | 112 | 1,063 | 765 |
| East North Central | 57,998 | 81,616 | -28.9% | 23,739 | 29,266 | 31,623 | 49,915 | 1,429 | 1,292 | 1,207 | 1,143 |
| Illinois | 6,828 | 11,189 | -39.0% | 579 | 1,450 | 5,297 | 8,993 | 591 | 437 | 361 | 309 |
| Indiana | 9,032 | 14,471 | -37.6% | 6,453 | 11,432 | 2,080 | 2,565 | 63 | 56 | 437 | 417 |
| Michigan | 12,341 | 21,748 | -43.3% | 2,658 | 4,401 | 8,946 | 16,697 | 489 | 468 | 249 | 183 |
| Ohio | 21,694 | 22,665 | -4.3% | 9,956 | 6,015 | 11,505 | 16,270 | 180 | 280 | 54 | 100 |
| Wisconsin | 8,102 | 11,542 | -29.8% | 4,095 | 5,968 | 3,795 | 5,390 | 107 | 51 | 106 | 134 |
| West North Central | 15,104 | 19,062 | -20.8% | 12,637 | 15,878 | 1,992 | 2,737 | 207 | 208 | 269 | 239 |
| Iowa | 1,430 | 1,941 | -26.3% | 1,327 | 1,868 | 0 | 0 | 31 | 11 | 71 | 62 |
| Kansas | 1,980 | 2,860 | -30.8% | 1,905 | 2,795 | 0 | 0 | 0 | 0 | 76 | 65 |
| Minnesota | 6,301 | 7,088 | -11.1% | 5,067 | 5,746 | 1,025 | 1,157 | 109 | 105 | 100 | 79 |
| Missouri | 4,400 | 6,167 | -28.7% | 3,361 | 4,495 | 967 | 1,580 | 66 | 91 | 5 | 1 |
| Nebraska | 437 | 770 | -43.3% | 436 | 758 | 0 | 0 | 0 | 1 | 0 | 11 |
| North Dakota | 54 | 22 | 149.8% | 37 | 0 | 0 | 0 | 0 | 0 | 17 | 22 |
| South Dakota | 502 | 214 | 134.6% | 502 | 214 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 250,918 | 262,975 | -4.6% | 208,648 | 204,630 | 38,477 | 54,865 | 496 | 269 | 3,297 | 3,212 |
| Delaware | 5,931 | 6,815 | -13.0% | 24 | 9 | 5,104 | 6,277 | 0 | 0 | 803 | 528 |
| District of Columbia | 66 | 62 | 5.6% | 0 | 0 | 0 | 0 | 66 | 62 | 0 | 0 |
| Florida | 138,966 | 149,700 | -7.2% | 128,205 | 136,017 | 9,282 | 12,279 | 30 | 28 | 1,449 | 1,376 |
| Georgia | 40,330 | 42,539 | -5.2% | 31,143 | 25,455 | 8,593 | 16,285 | 0 | 0 | 594 | 799 |
| Maryland | 2,888 | 4,945 | -41.6% | 0 | 0 | 2,445 | 4,658 | 388 | 172 | 55 | 114 |
| North Carolina | 27,983 | 19,302 | 45.0% | 24,949 | 15,966 | 2,936 | 3,258 | 5 | 6 | 92 | 72 |
| South Carolina | 11,834 | 14,332 | -17.4% | 10,505 | 12,441 | 1,266 | 1,801 | 5 | 0 | 58 | 91 |
| Virginia | 22,651 | 25,038 | -9.5% | 13,781 | 14,709 | 8,622 | 10,112 | 3 | 0 | 245 | 217 |
| West Virginia | 270 | 243 | 11.0% | 41 | 33 | 229 | 194 | 0 | 0 | 0 | 15 |
| East South Central | 84,798 | 105,279 | -19.5% | 48,944 | 54,302 | 33,042 | 48,046 | 193 | 163 | 2,620 | 2,768 |
| Alabama | 46,586 | 55,705 | -16.4% | 14,394 | 14,696 | 31,199 | 39,983 | 0 | 0 | 993 | 1,026 |
| Kentucky | 1,418 | 2,949 | -51.9% | 1,013 | 2,401 | 201 | 317 | 0 | 0 | 204 | 231 |
| Mississippi | 31,777 | 38,550 | -17.6% | 28,761 | 29,313 | 1,643 | 7,746 | 23 | 22 | 1,350 | 1,470 |
| Tennessee | 5,017 | 8,075 | -37.9% | 4,775 | 7,892 | 0 | 0 | 170 | 142 | 72 | 41 |
| West South Central | 298,504 | 328,607 | -9.2% | 86,215 | 89,027 | 148,589 | 177,322 | 846 | 726 | 62,854 | 61,532 |
| Arkansas | 12,139 | 17,117 | -29.1% | 4,116 | 2,502 | 7,759 | 14,392 | 1 | 1 | 264 | 222 |
| Louisiana | 52,510 | 58,564 | -10.3% | 24,227 | 22,525 | 3,313 | 12,042 | 203 | 45 | 24,768 | 23,952 |
| Oklahoma | 30,056 | 39,024 | -23.0% | 21,863 | 26,971 | 8,166 | 11,939 | NM | 10 | 83 | 105 |
| Texas | 203,798 | 213,901 | -4.7% | 36,009 | 37,029 | 129,352 | 138,948 | 698 | 671 | 37,739 | 37,253 |
| Mountain | 85,260 | 84,720 | 0.6% | 53,862 | 50,390 | 29,840 | 32,753 | 382 | 293 | 1,177 | 1,284 |
| Arizona | 29,685 | 30,295 | -2.0% | 11,533 | 13,911 | 18,014 | 16,265 | 138 | 113 | 0 | 7 |
| Colorado | 10,709 | 10,524 | 1.8% | 7,897 | 5,898 | 2,788 | 4,607 | 7 | 4 | 16 | 16 |
| Idaho | 3,392 | 1,898 | 78.7% | 1,610 | 558 | 1,739 | 1,291 | 0 | 0 | 43 | 49 |
| Montana | 614 | 464 | 32.4% | 577 | 439 | 38 | 25 | 0 | 0 | 0 | 0 |
| Nevada | 24,767 | 25,647 | -3.4% | 21,356 | 18,798 | 3,096 | 6,527 | 67 | 60 | 248 | 262 |
| New Mexico | 8,975 | 8,799 | 2.0% | 5,483 | 5,394 | 3,405 | 3,327 | 86 | 78 | 2 | 0 |
| Utah | 6,606 | 6,580 | 0.4% | 5,373 | 5,363 | 744 | 695 | 84 | 38 | 406 | 484 |
| Wyoming | 512 | 513 | -0.1% | 33 | 30 | 18 | 16 | 0 | 0 | 462 | 467 |
| Pacific Contiguous | 145,310 | 136,731 | 6.3% | 50,434 | 44,048 | 80,325 | 78,546 | 1,750 | 1,839 | 12,801 | 12,298 |
| California | 119,523 | 119,668 | -0.1% | 35,398 | 35,717 | 69,790 | 70,066 | 1,655 | 1,782 | 12,680 | 12,104 |
| Oregon | 14,363 | 11,625 | 23.6% | 5,169 | 4,025 | 9,067 | 7,416 | 76 | 51 | 51 | 133 |
| Washington | 11,424 | 5,438 | 110.1% | 9,868 | 4,307 | 1,468 | 1,064 | 19 | 7 | 70 | 61 |
| Pacific Noncontiguous | 3,421 | 3,606 | -5.1% | 3,356 | 3,566 | 0 | 0 | 5 | 3 | 60 | 37 |
| Alaska | 3,421 | 3,606 | -5.1% | 3,356 | 3,566 | 0 | 0 | 5 | 3 | 60 | 37 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 1,124,836 | 1,225,894 | -8.2% | 501,427 | 504,958 | 527,522 | 627,833 | 7,154 | 6,603 | 88,733 | 86,500 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 3.11. Net Generation from Other Gases
by State, by Sector, 2013 and 2012 (Thousand Megawatthours)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|------------------------------|-----------------------|-----------|----------------------|--------------------|-----------|--------------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Connecticut | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Hampshire | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 873 | 740 | 18.0% | 0 | 0 | 0 | 0 | 0 | 0 | 873 | 740 |
| New Jersey | 223 | 142 | 57.0% | 0 | 0 | 0 | 0 | 0 | 0 | 223 | 142 |
| New York | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | 650 | 598 | 8.7% | 0 | 0 | 0 | 0 | 0 | 0 | 650 | 598 |
| East North Central | 4,675 | 4,059 | 15.2% | 73 | 0 | 1,651 | 673 | 0 | 0 | 2,951 | 3,386 |
| Illinois | 356 | 294 | 21.2% | 0 | 0 | 17 | 8 | 0 | 0 | 339 | 286 |
| Indiana | 2,410 | 2,491 | -3.3% | 4 | 0 | 0 | 0 | 0 | 0 | 2,405 | 2,491 |
| Michigan | 957 | 315 | 203.9% | 68 | 0 | 888 | 315 | 0 | 0 | 0 | 0 |
| Ohio | 953 | 959 | -0.6% | 0 | 0 | 746 | 350 | 0 | 0 | 207 | 609 |
| Wisconsin | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 42 | 35 | 19.3% | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 35 |
| Iowa | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 42 | 35 | 19.3% | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 35 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 190 | 394 | -51.7% | 0 | 0 | 0 | 0 | 0 | 0 | 190 | 394 |
| Delaware | 155 | 244 | -36.2% | 0 | 0 | 0 | 0 | 0 | 0 | 155 | 244 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 5 | 6 | -22.8% | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 6 |
| Georgia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 0 | 112 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 |
| North Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 30 | 32 | -5.3% | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 32 |
| East South Central | 281 | 191 | 46.8% | 0 | 0 | 0 | 0 | 0 | 0 | 281 | 191 |
| Alabama | 268 | 178 | 50.7% | 0 | 0 | 0 | 0 | 0 | 0 | 268 | 178 |
| Kentucky | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 13 | 13 | -5.3% | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 |
| West South Central | 4,646 | 4,246 | 9.4% | 725 | 0 | 1,457 | 1,899 | 0 | 0 | 2,464 | 2,348 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 2,246 | 1,247 | 80.1% | 725 | 0 | 0 | 266 | 0 | 0 | 1,521 | 982 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 2,400 | 2,999 | -20.0% | 0 | 0 | 1,457 | 1,633 | 0 | 0 | 943 | 1,366 |
| Mountain | 289 | 294 | -1.5% | 0 | 0 | 6 | 7 | 0 | 0 | 283 | 286 |
| Arizona | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 0 | 0 | 17.1% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 6 | 7 | -13.9% | 0 | 0 | 6 | 7 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 2 | 4 | -55.0% | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 |
| Wyoming | 281 | 282 | -0.5% | 0 | 0 | 0 | 0 | 0 | 0 | 281 | 282 |
| Pacific Contiguous | 1,816 | 1,890 | -3.9% | 0 | 0 | 410 | 405 | 0 | 0 | 1,406 | 1,484 |
| California | 1,406 | 1,484 | -5.3% | 0 | 0 | 0 | 0 | 0 | 0 | 1,406 | 1,484 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 410 | 405 | 1.1% | 0 | 0 | 410 | 405 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 41 | 50 | -16.8% | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 50 |
| Alaska | 0 | 3 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Hawaii | 41 | 47 | -12.1% | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 47 |
| U.S. Total | 12,853 | 11,898 | 8.0% | 798 | 0 | 3,524 | 2,984 | 0 | 0 | 8,531 | 8,913 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.12. Net Generation from Nuclear Energy by State, by Sector, 2013 and 2012 (Thousand Megawatthours)

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 37,183 | 36,116 | 3.0% | 0 | 0 | 37,183 | 36,116 | 0 | 0 | 0 | 0 |
| Connecticut | 17,080 | 17,078 | 0.0% | 0 | 0 | 17,080 | 17,078 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 4,331 | 5,860 | -26.1% | 0 | 0 | 4,331 | 5,860 | 0 | 0 | 0 | 0 |
| New Hampshire | 10,927 | 8,189 | 33.4% | 0 | 0 | 10,927 | 8,189 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 4,846 | 4,989 | -2.9% | 0 | 0 | 4,846 | 4,989 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 156,849 | 149,059 | 5.2% | 0 | 0 | 156,849 | 149,059 | 0 | 0 | 0 | 0 |
| New Jersey | 33,380 | 33,110 | 0.8% | 0 | 0 | 33,380 | 33,110 | 0 | 0 | 0 | 0 |
| New York | 44,756 | 40,775 | 9.8% | 0 | 0 | 44,756 | 40,775 | 0 | 0 | 0 | 0 |
| Pennsylvania | 78,714 | 75,174 | 4.7% | 0 | 0 | 78,714 | 75,174 | 0 | 0 | 0 | 0 |
| East North Central | 153,849 | 155,808 | -1.3% | 22,879 | 22,842 | 130,970 | 132,966 | 0 | 0 | 0 | 0 |
| Illinois | 97,131 | 96,401 | 0.8% | 0 | 0 | 97,131 | 96,401 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 28,921 | 28,020 | 3.2% | 22,879 | 22,842 | 6,042 | 5,178 | 0 | 0 | 0 | 0 |
| Ohio | 16,121 | 17,087 | -5.7% | 0 | 0 | 16,121 | 17,087 | 0 | 0 | 0 | 0 |
| Wisconsin | 11,675 | 14,300 | -18.4% | 0 | 0 | 11,675 | 14,300 | 0 | 0 | 0 | 0 |
| West North Central | 38,429 | 41,096 | -6.5% | 33,108 | 36,749 | 5,321 | 4,347 | 0 | 0 | 0 | 0 |
| Iowa | 5,321 | 4,347 | 22.4% | 0 | 0 | 5,321 | 4,347 | 0 | 0 | 0 | 0 |
| Kansas | 7,168 | 8,285 | -13.5% | 7,168 | 8,285 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 10,708 | 11,944 | -10.3% | 10,708 | 11,944 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 8,367 | 10,718 | -21.9% | 8,367 | 10,718 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 6,865 | 5,802 | 18.3% | 6,865 | 5,802 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 197,513 | 184,645 | 7.0% | 183,249 | 171,066 | 14,264 | 13,579 | 0 | 0 | 0 | 0 |
| Delaware | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 26,526 | 17,870 | 48.4% | 26,526 | 17,870 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 32,903 | 33,942 | -3.1% | 32,903 | 33,942 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 14,264 | 13,579 | 5.0% | 0 | 0 | 14,264 | 13,579 | 0 | 0 | 0 | 0 |
| North Carolina | 40,242 | 39,386 | 2.2% | 40,242 | 39,386 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 54,252 | 51,145 | 6.1% | 54,252 | 51,145 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 29,326 | 28,723 | 2.1% | 29,326 | 28,723 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 80,174 | 73,239 | 9.5% | 80,174 | 73,239 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 40,816 | 40,841 | -0.1% | 40,816 | 40,841 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 10,865 | 7,296 | 48.9% | 10,865 | 7,296 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 28,494 | 25,102 | 13.5% | 28,494 | 25,102 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 67,215 | 69,593 | -3.4% | 28,900 | 31,152 | 38,315 | 38,441 | 0 | 0 | 0 | 0 |
| Arkansas | 11,945 | 15,493 | -22.9% | 11,945 | 15,493 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 16,954 | 15,659 | 8.3% | 16,954 | 15,659 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 38,315 | 38,441 | -0.3% | 0 | 0 | 38,315 | 38,441 | 0 | 0 | 0 | 0 |
| Mountain | 31,431 | 31,934 | -1.6% | 31,431 | 31,934 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | 31,431 | 31,934 | -1.6% | 31,431 | 31,934 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 26,373 | 27,841 | -5.3% | 26,373 | 27,841 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 17,912 | 18,507 | -3.2% | 17,912 | 18,507 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 8,461 | 9,334 | -9.4% | 8,461 | 9,334 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 789,016 | 769,331 | 2.6% | 406,114 | 394,823 | 382,902 | 374,509 | 0 | 0 | 0 | 0 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.13. Net Generation from Hydroelectric (Conventional) Power by State, by Sector, 2013 and 2012 (Thousand Megawatthours)

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 7,671 | 7,360 | 4.2% | 1,085 | 950 | 6,140 | 5,966 | 6 | 5 | 440 | 440 |
| Connecticut | 402 | 312 | 28.8% | 36 | 27 | 366 | 286 | 0 | 0 | 0 | 0 |
| Maine | 3,560 | 3,733 | -4.6% | 0 | 0 | 3,124 | 3,320 | 0 | 0 | 437 | 412 |
| Massachusetts | 992 | 912 | 8.7% | 270 | 230 | 712 | 673 | 6 | 5 | 4 | 4 |
| New Hampshire | 1,427 | 1,289 | 10.7% | 358 | 324 | 1,069 | 965 | 0 | 0 | 0 | 0 |
| Rhode Island | 4 | 4 | 4.2% | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 |
| Vermont | 1,286 | 1,109 | 15.9% | 421 | 369 | 865 | 717 | 0 | 0 | 0 | 23 |
| Middle Atlantic | 27,516 | 26,905 | 2.3% | 21,429 | 21,762 | 6,020 | 5,079 | 6 | 4 | 62 | 61 |
| New Jersey | 18 | 11 | 69.9% | 0 | 0 | 18 | 11 | 0 | 0 | 0 | 0 |
| New York | 24,973 | 24,652 | 1.3% | 20,327 | 20,728 | 4,579 | 3,860 | 6 | 4 | 62 | 61 |
| Pennsylvania | 2,525 | 2,242 | 12.6% | 1,102 | 1,035 | 1,423 | 1,207 | 0 | 0 | 0 | 0 |
| East North Central | 4,454 | 3,696 | 20.5% | 4,009 | 3,340 | 260 | 208 | 2 | 4 | 184 | 143 |
| Illinois | 120 | 111 | 8.2% | 46 | 50 | 73 | 59 | 2 | 2 | 0 | 0 |
| Indiana | 387 | 434 | -10.7% | 387 | 434 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 1,419 | 1,215 | 16.8% | 1,293 | 1,111 | 97 | 78 | 0 | 0 | 29 | 26 |
| Ohio | 549 | 414 | 32.6% | 549 | 414 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 1,979 | 1,522 | 30.0% | 1,734 | 1,332 | 90 | 71 | 0 | 2 | 155 | 117 |
| West North Central | 9,450 | 11,767 | -19.7% | 9,170 | 11,529 | 190 | 164 | 0 | 0 | 90 | 74 |
| Iowa | 749 | 766 | -2.2% | 743 | 761 | 6 | 6 | 0 | 0 | 0 | 0 |
| Kansas | 15 | 10 | 39.6% | 0 | 0 | 15 | 10 | 0 | 0 | 0 | 0 |
| Minnesota | 511 | 561 | -8.9% | 251 | 339 | 170 | 148 | 0 | 0 | 90 | 74 |
| Missouri | 1,136 | 714 | 59.1% | 1,136 | 714 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 1,124 | 1,257 | -10.6% | 1,124 | 1,257 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 1,852 | 2,477 | -25.2% | 1,852 | 2,477 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 4,063 | 5,981 | -32.1% | 4,063 | 5,981 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 18,748 | 11,667 | 60.7% | 14,679 | 8,493 | 2,483 | 2,209 | 18 | 12 | 1,568 | 953 |
| Delaware | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 254 | 151 | 68.9% | 254 | 151 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 3,714 | 2,236 | 66.1% | 3,677 | 2,212 | 14 | 6 | 0 | 0 | 23 | 19 |
| Maryland | 1,727 | 1,657 | 4.3% | 0 | 0 | 1,727 | 1,657 | 0 | 0 | 0 | 0 |
| North Carolina | 6,901 | 3,728 | 85.1% | 5,943 | 3,311 | 62 | 30 | 15 | 11 | 881 | 375 |
| South Carolina | 3,160 | 1,420 | 122.5% | 3,056 | 1,367 | 100 | 53 | 4 | 0 | 0 | 0 |
| Virginia | 1,254 | 1,044 | 20.1% | 1,171 | 969 | 78 | 62 | 0 | 0 | 5 | 12 |
| West Virginia | 1,739 | 1,431 | 21.5% | 578 | 483 | 502 | 401 | 0 | 0 | 659 | 547 |
| East South Central | 28,618 | 18,093 | 58.2% | 27,534 | 17,461 | 9 | 8 | 0 | 0 | 1,074 | 623 |
| Alabama | 12,899 | 7,435 | 73.5% | 12,899 | 7,435 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 3,275 | 2,362 | 38.7% | 3,266 | 2,353 | 9 | 8 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 12,443 | 8,296 | 50.0% | 11,369 | 7,673 | 0 | 0 | 0 | 0 | 1,074 | 623 |
| West South Central | 6,357 | 4,608 | 38.0% | 5,235 | 3,850 | 1,122 | 758 | 0 | 0 | 0 | 0 |
| Arkansas | 2,655 | 2,198 | 20.8% | 2,609 | 2,156 | 46 | 43 | 0 | 0 | 0 | 0 |
| Louisiana | 1,045 | 680 | 53.6% | 0 | 0 | 1,045 | 680 | 0 | 0 | 0 | 0 |
| Oklahoma | 2,178 | 1,146 | 90.1% | 2,178 | 1,146 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 480 | 584 | -17.9% | 449 | 549 | 31 | 36 | 0 | 0 | 0 | 0 |
| Mountain | 29,229 | 34,743 | -15.9% | 25,051 | 30,089 | 4,171 | 4,653 | 7 | 0 | 0 | 0 |
| Arizona | 5,915 | 6,717 | -11.9% | 5,915 | 6,717 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 1,213 | 1,497 | -19.0% | 1,126 | 1,430 | 80 | 68 | 7 | 0 | 0 | 0 |
| Idaho | 8,473 | 10,940 | -22.5% | 7,846 | 10,005 | 627 | 935 | 0 | 0 | 0 | 0 |
| Montana | 9,638 | 11,283 | -14.6% | 6,247 | 7,693 | 3,391 | 3,590 | 0 | 0 | 0 | 0 |
| Nevada | 2,682 | 2,440 | 9.9% | 2,628 | 2,399 | 54 | 42 | 0 | 0 | 0 | 0 |
| New Mexico | 92 | 223 | -58.8% | 92 | 223 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 505 | 748 | -32.5% | 495 | 740 | 10 | 8 | 0 | 0 | 0 | 0 |
| Wyoming | 711 | 893 | -20.4% | 701 | 883 | 10 | 10 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 135,007 | 155,712 | -13.3% | 133,394 | 153,857 | 1,608 | 1,851 | 5 | 3 | 0 | 1 |
| California | 23,755 | 26,837 | -11.5% | 22,657 | 25,548 | 1,093 | 1,286 | 5 | 3 | 0 | 0 |
| Oregon | 33,098 | 39,410 | -16.0% | 32,854 | 39,111 | 244 | 299 | 0 | 0 | 0 | 0 |
| Washington | 78,155 | 89,464 | -12.6% | 77,883 | 89,197 | 272 | 265 | 0 | 0 | 0 | 1 |
| Pacific Noncontiguous | 1,514 | 1,690 | -10.4% | 1,454 | 1,604 | 15 | 27 | 0 | 0 | 44 | 59 |
| Alaska | 1,435 | 1,575 | -8.9% | 1,435 | 1,575 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 78 | 115 | -31.7% | 19 | 29 | 15 | 27 | 0 | 0 | 44 | 59 |
| U.S. Total | 268,565 | 276,240 | -2.8% | 243,040 | 252,936 | 22,018 | 20,923 | 44 | 28 | 3,463 | 2,353 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.14. Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, 2013 and 2012 (Thousand Megawatthours)

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 9,487 | 8,557 | 10.9% | 869 | 664 | 6,282 | 5,652 | 175 | 136 | 2,160 | 2,105 |
| Connecticut | 652 | 667 | -2.2% | 0 | 0 | 626 | 667 | 26 | 0 | 0 | 0 |
| Maine | 4,893 | 4,099 | 19.4% | 0 | 0 | 2,642 | 2,468 | 91 | 92 | 2,160 | 1,539 |
| Massachusetts | 1,448 | 1,843 | -21.4% | 66 | 68 | 1,366 | 1,198 | 16 | 11 | 0 | 566 |
| New Hampshire | 1,695 | 1,381 | 22.7% | 359 | 347 | 1,297 | 1,003 | 40 | 31 | 0 | 0 |
| Rhode Island | 53 | 102 | -48.3% | 0 | 0 | 53 | 102 | 0 | 0 | 0 | 0 |
| Vermont | 745 | 465 | 60.1% | 444 | 249 | 298 | 214 | 2 | 2 | 0 | 0 |
| Middle Atlantic | 13,089 | 10,932 | 19.7% | 215 | 41 | 11,522 | 9,625 | 569 | 544 | 783 | 722 |
| New Jersey | 1,447 | 1,281 | 13.0% | 41 | 41 | 1,164 | 1,044 | 241 | 194 | 1 | 1 |
| New York | 5,888 | 5,192 | 13.4% | 175 | 0 | 5,254 | 4,727 | 209 | 220 | 251 | 246 |
| Pennsylvania | 5,754 | 4,459 | 29.0% | 0 | 0 | 5,104 | 3,854 | 119 | 130 | 531 | 475 |
| East North Central | 24,889 | 20,666 | 20.4% | 2,795 | 1,791 | 20,072 | 16,813 | 191 | 235 | 1,830 | 1,828 |
| Illinois | 10,285 | 8,373 | 22.8% | 4 | 14 | 10,282 | 8,358 | 0 | 0 | 0 | 0 |
| Indiana | 3,888 | 3,546 | 9.6% | 315 | 286 | 3,511 | 3,209 | 21 | 22 | 41 | 29 |
| Michigan | 5,514 | 3,785 | 45.7% | 1,190 | 274 | 3,357 | 2,510 | 146 | 196 | 822 | 806 |
| Ohio | 2,009 | 1,739 | 15.6% | 28 | 20 | 1,619 | 1,367 | 3 | 0 | 359 | 352 |
| Wisconsin | 3,192 | 3,223 | -1.0% | 1,259 | 1,197 | 1,303 | 1,370 | 22 | 16 | 608 | 641 |
| West North Central | 46,412 | 39,730 | 16.8% | 14,287 | 12,555 | 31,481 | 26,570 | 101 | 83 | 543 | 521 |
| Iowa | 15,727 | 14,183 | 10.9% | 8,600 | 7,479 | 7,075 | 6,664 | 31 | 28 | 21 | 12 |
| Kansas | 9,491 | 5,253 | 80.7% | 917 | 852 | 8,574 | 4,401 | 0 | 0 | 0 | 0 |
| Minnesota | 9,871 | 9,454 | 4.4% | 2,143 | 2,016 | 7,170 | 6,901 | 45 | 38 | 513 | 499 |
| Missouri | 1,241 | 1,299 | -4.4% | 41 | 28 | 1,189 | 1,266 | 8 | 0 | 3 | 5 |
| Nebraska | 1,869 | 1,347 | 38.8% | 268 | 258 | 1,583 | 1,072 | 18 | 17 | 0 | 0 |
| North Dakota | 5,524 | 5,280 | 4.6% | 1,707 | 1,256 | 3,812 | 4,019 | 0 | 0 | 5 | 6 |
| South Dakota | 2,688 | 2,915 | -7.8% | 610 | 667 | 2,078 | 2,248 | 0 | 0 | 0 | 0 |
| South Atlantic | 19,023 | 17,334 | 9.7% | 1,393 | 1,056 | 7,348 | 6,784 | 445 | 241 | 9,837 | 9,253 |
| Delaware | 107 | 131 | -18.7% | 2 | 2 | 100 | 125 | 4 | 4 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 4,659 | 4,524 | 3.0% | 262 | 243 | 2,221 | 2,243 | 34 | 37 | 2,141 | 2,001 |
| Georgia | 3,839 | 3,279 | 17.1% | 0 | 0 | 512 | 219 | 26 | 29 | 3,301 | 3,030 |
| Maryland | 941 | 898 | 4.8% | 9 | 3 | 773 | 717 | 33 | 36 | 126 | 141 |
| North Carolina | 2,955 | 2,704 | 9.3% | 7 | 4 | 1,512 | 1,362 | 118 | 4 | 1,318 | 1,334 |
| South Carolina | 2,226 | 2,143 | 3.9% | 439 | 458 | 86 | 40 | 0 | 0 | 1,702 | 1,646 |
| Virginia | 2,906 | 2,358 | 23.2% | 674 | 345 | 753 | 782 | 230 | 130 | 1,249 | 1,101 |
| West Virginia | 1,391 | 1,297 | 7.2% | 0 | 0 | 1,391 | 1,297 | 0 | 0 | 0 | 0 |
| East South Central | 5,761 | 5,455 | 5.6% | 99 | 96 | 355 | 307 | 2 | NM | 5,305 | 5,050 |
| Alabama | 2,876 | 2,777 | 3.6% | 0 | 1 | 199 | 190 | 0 | 0 | 2,677 | 2,586 |
| Kentucky | 327 | 333 | -1.9% | 98 | 95 | 0 | 0 | 0 | 0 | 228 | 238 |
| Mississippi | 1,448 | 1,509 | -4.0% | 0 | 0 | 12 | 3 | 0 | 0 | 1,436 | 1,506 |
| Tennessee | 1,110 | 836 | 32.7% | 0 | 0 | 144 | 114 | 2 | NM | 964 | 720 |
| West South Central | 53,653 | 46,628 | 15.1% | 1,951 | 1,912 | 46,107 | 39,392 | 42 | 41 | 5,553 | 5,282 |
| Arkansas | 1,601 | 1,660 | -3.6% | 0 | 0 | 100 | 65 | 5 | 6 | 1,496 | 1,590 |
| Louisiana | 2,787 | 2,430 | 14.7% | 0 | 0 | 73 | 60 | 0 | 0 | 2,714 | 2,370 |
| Oklahoma | 11,506 | 8,521 | 35.0% | 1,630 | 1,594 | 9,550 | 6,564 | 0 | 0 | 326 | 363 |
| Texas | 37,760 | 34,017 | 11.0% | 321 | 319 | 36,385 | 32,704 | 37 | 36 | 1,017 | 958 |
| Mountain | 26,836 | 22,677 | 18.3% | 3,208 | 2,700 | 23,146 | 19,510 | 74 | 64 | 408 | 403 |
| Arizona | 2,733 | 1,698 | 61.0% | 302 | 188 | 2,411 | 1,502 | 20 | 8 | 0 | 0 |
| Colorado | 7,536 | 6,192 | 21.7% | 172 | 74 | 7,342 | 6,093 | 19 | 21 | 3 | 3 |
| Idaho | 3,152 | 2,515 | 25.4% | 144 | 70 | 2,610 | 2,048 | 0 | 0 | 398 | 397 |
| Montana | 1,760 | 1,262 | 39.5% | 237 | 101 | 1,517 | 1,161 | 0 | 0 | 5 | 0 |
| Nevada | 3,690 | 2,969 | 24.3% | 0 | 0 | 3,656 | 2,934 | 32 | 32 | 3 | 3 |
| New Mexico | 2,600 | 2,574 | 1.0% | 57 | 48 | 2,540 | 2,522 | 3 | 4 | 0 | 0 |
| Utah | 932 | 1,100 | -15.3% | 251 | 269 | 681 | 831 | 0 | 0 | 0 | 0 |
| Wyoming | 4,433 | 4,369 | 1.5% | 2,045 | 1,951 | 2,389 | 2,418 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 53,034 | 45,388 | 16.8% | 7,472 | 7,160 | 41,888 | 34,748 | 1,128 | 1,046 | 2,546 | 2,434 |
| California | 35,578 | 29,967 | 18.7% | 2,214 | 2,105 | 31,514 | 26,055 | 1,100 | 1,024 | 750 | 783 |
| Oregon | 8,635 | 7,207 | 19.8% | 1,467 | 1,369 | 6,603 | 5,344 | 22 | 22 | 543 | 472 |
| Washington | 8,822 | 8,214 | 7.4% | 3,792 | 3,687 | 3,771 | 3,348 | 7 | 0 | 1,253 | 1,179 |
| Pacific Noncontiguous | 1,324 | 965 | 37.3% | 127 | 41 | 844 | 662 | 228 | 153 | 125 | 109 |
| Alaska | 197 | 40 | 393.8% | 99 | 19 | 46 | 18 | 46 | 0 | 6 | 3 |
| Hawaii | 1,127 | 925 | 21.9% | 29 | 22 | 798 | 644 | 183 | 153 | 118 | 106 |
| U.S. Total | 253,508 | 218,333 | 16.1% | 32,417 | 28,017 | 189,045 | 160,064 | 2,956 | 2,545 | 29,091 | 27,707 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.15. Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, 2013 and 2012 (Thousand Megawatthours)

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | -369 | -305 | 21.0% | 0 | 0 | -369 | -305 | 0 | 0 | 0 | 0 |
| Connecticut | -1 | 3 | -138.7% | 0 | 0 | -1 | 3 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | -368 | -308 | 19.6% | 0 | 0 | -368 | -308 | 0 | 0 | 0 | 0 |
| New Hampshire | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | -1,184 | -1,022 | 15.8% | -645 | -579 | -539 | -443 | 0 | 0 | 0 | 0 |
| New Jersey | -202 | -166 | 21.6% | -202 | -166 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York | -443 | -413 | 7.2% | -443 | -413 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | -539 | -443 | 21.5% | 0 | 0 | -539 | -443 | 0 | 0 | 0 | 0 |
| East North Central | -871 | -773 | 12.6% | -871 | -773 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | -871 | -773 | 12.6% | -871 | -773 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ohio | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 296 | 33 | 785.3% | 296 | 33 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iowa | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 296 | 33 | 785.3% | 296 | 33 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | -2,411 | -3,099 | -22.2% | -2,411 | -3,099 | 0 | 0 | 0 | 0 | 0 | 0 |
| Delaware | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | -427 | -838 | -49.0% | -427 | -838 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | -795 | -896 | -11.3% | -795 | -896 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | -1,189 | -1,366 | -12.9% | -1,189 | -1,366 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | -42 | -163 | -74.2% | -42 | -163 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | -42 | -163 | -74.2% | -42 | -163 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | -48 | -74 | -35.9% | -48 | -74 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arkansas | 31 | 42 | -27.3% | 31 | 42 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | -78 | -117 | -32.8% | -78 | -117 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mountain | -256 | -165 | 55.2% | -256 | -165 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | 24 | 79 | -69.4% | 24 | 79 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | -280 | -244 | 14.7% | -280 | -244 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 203 | 618 | -67.1% | 203 | 618 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 196 | 575 | -65.9% | 196 | 575 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 7 | 44 | -83.5% | 7 | 44 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | -4,681 | -4,950 | -5.4% | -3,773 | -4,202 | -908 | -748 | 0 | 0 | 0 | 0 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 3.16. Net Generation from Other Energy Sources
by State, by Sector, 2013 and 2012 (Thousand Megawatthours)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|------------------------------|-----------------------|-----------|----------------------|--------------------|-----------|--------------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 2,049 | 2,153 | -4.8% | 0 | 0 | 1,820 | 1,944 | 110 | 88 | 119 | 121 |
| Connecticut | 711 | 756 | -6.0% | 0 | 0 | 688 | 756 | 23 | 0 | 0 | 0 |
| Maine | 401 | 424 | -5.5% | 0 | 0 | 195 | 245 | 86 | 88 | 119 | 92 |
| Massachusetts | 876 | 906 | -3.4% | 0 | 0 | 876 | 877 | 0 | 0 | 0 | 29 |
| New Hampshire | 61 | 66 | -6.9% | 0 | 0 | 61 | 66 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 2,349 | 2,497 | -5.9% | 7 | 0 | 1,809 | 1,924 | 440 | 465 | 93 | 107 |
| New Jersey | 625 | 633 | -1.2% | 0 | 0 | 386 | 378 | 146 | 147 | 93 | 107 |
| New York | 884 | 968 | -8.7% | 7 | 0 | 686 | 757 | 191 | 211 | 0 | 0 |
| Pennsylvania | 841 | 896 | -6.2% | 0 | 0 | 737 | 789 | 103 | 107 | 0 | 0 |
| East North Central | 1,113 | 1,133 | -1.7% | 140 | 121 | 137 | 159 | 154 | 205 | 681 | 648 |
| Illinois | 285 | 299 | -4.9% | 0 | 0 | 0 | 0 | 0 | 0 | 285 | 299 |
| Indiana | 442 | 347 | 27.7% | 96 | 57 | 0 | 0 | 19 | 20 | 327 | 269 |
| Michigan | 312 | 395 | -20.9% | 14 | 25 | 139 | 159 | 135 | 185 | 24 | 27 |
| Ohio | 8 | 12 | -36.1% | 0 | 0 | -2 | 0 | 0 | 0 | 10 | 12 |
| Wisconsin | 66 | 80 | -17.4% | 30 | 39 | 0 | 0 | 0 | 0 | 36 | 41 |
| West North Central | 415 | 478 | -13.1% | 230 | 246 | 103 | 149 | 28 | 28 | 55 | 55 |
| Iowa | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 361 | 394 | -8.5% | 176 | 163 | 103 | 149 | 28 | 28 | 55 | 55 |
| Missouri | 16 | 20 | -18.1% | 16 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 38 | 64 | -40.3% | 38 | 64 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 4,580 | 4,501 | 1.8% | 0 | 0 | 2,194 | 2,205 | 210 | 113 | 2,175 | 2,183 |
| Delaware | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 3,086 | 3,194 | -3.4% | 0 | 0 | 1,393 | 1,436 | 0 | 0 | 1,693 | 1,757 |
| Georgia | 88 | 56 | 56.7% | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 56 |
| Maryland | 303 | 296 | 2.1% | 0 | 0 | 302 | 296 | 0 | 1 | 0 | 0 |
| North Carolina | 567 | 452 | 25.5% | 0 | 0 | 229 | 141 | 0 | 0 | 338 | 311 |
| South Carolina | 62 | 106 | -41.6% | 0 | 0 | 5 | 48 | 0 | 0 | 57 | 58 |
| Virginia | 475 | 397 | 19.7% | 0 | 0 | 265 | 284 | 210 | 113 | 0 | 1 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 18 | 235 | -92.5% | 9 | 8 | 0 | 0 | 0 | 0 | 9 | 227 |
| Alabama | 3 | 227 | -98.5% | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 227 |
| Kentucky | 9 | 8 | 6.3% | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 5 | 0 | NM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Tennessee | 1 | 1 | 0.2% | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| West South Central | 974 | 714 | 36.4% | 0 | 0 | -1 | 0 | 0 | 0 | 975 | 714 |
| Arkansas | 21 | 30 | -32.3% | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 30 |
| Louisiana | 679 | 376 | 80.8% | 0 | 0 | 0 | 0 | 0 | 0 | 679 | 376 |
| Oklahoma | 2 | 10 | -80.1% | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 10 |
| Texas | 272 | 298 | -8.6% | 0 | 0 | -1 | 0 | 0 | 0 | 273 | 298 |
| Mountain | 715 | 702 | 1.9% | 26 | 12 | 348 | 381 | 0 | 0 | 341 | 309 |
| Arizona | 3 | 24 | -86.3% | 0 | 0 | 3 | 24 | 0 | 0 | 0 | 0 |
| Colorado | 46 | 55 | -16.6% | 0 | 0 | 8 | 11 | 0 | 0 | 38 | 45 |
| Idaho | 77 | 69 | 11.3% | 0 | 0 | 0 | 0 | 0 | 0 | 77 | 69 |
| Montana | 332 | 341 | -2.6% | 0 | 0 | 332 | 341 | 0 | 0 | 0 | 0 |
| Nevada | 25 | 12 | 112.8% | 25 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 1 | 0 | -- | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 161 | 133 | 20.9% | 0 | 0 | 5 | 5 | 0 | 0 | 156 | 128 |
| Wyoming | 69 | 67 | 3.4% | 0 | 0 | 0 | 0 | 0 | 0 | 69 | 67 |
| Pacific Contiguous | 980 | 1,012 | -3.2% | -1 | 0 | 317 | 268 | 0 | 0 | 664 | 744 |
| California | 816 | 815 | 0.2% | -1 | 0 | 215 | 158 | 0 | 0 | 602 | 657 |
| Oregon | 35 | 50 | -31.0% | 0 | 0 | 35 | 42 | 0 | 0 | 0 | 8 |
| Washington | 129 | 147 | -12.1% | 0 | 0 | 67 | 69 | 0 | 0 | 62 | 78 |
| Pacific Noncontiguous | 394 | 363 | 8.5% | 205 | 216 | 13 | 0 | 175 | 147 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 394 | 363 | 8.6% | 205 | 216 | 13 | 0 | 175 | 147 | 0 | 0 |
| U.S. Total | 13,588 | 13,787 | -1.4% | 615 | 603 | 6,742 | 7,030 | 1,118 | 1,046 | 5,113 | 5,108 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 3.17. Net Generation from Wind
by State, by Sector, 2013 and 2012 (Thousand Megawatthours)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|------------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 1,880 | 1,294 | 45.4% | 189 | 85 | 1,676 | 1,199 | 15 | 9 | 0 | 0 |
| Connecticut | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | 1,048 | 887 | 18.1% | 0 | 0 | 1,048 | 887 | 0 | 0 | 0 | 0 |
| Massachusetts | 205 | 90 | 128.5% | 62 | 59 | 128 | 21 | 15 | 9 | 0 | 0 |
| New Hampshire | 389 | 209 | 86.5% | 0 | 0 | 389 | 209 | 0 | 0 | 0 | 0 |
| Rhode Island | 3 | 1 | 87.7% | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 |
| Vermont | 236 | 107 | 120.8% | 127 | 26 | 109 | 81 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 6,902 | 5,132 | 34.5% | 0 | 0 | 6,899 | 5,128 | 0 | 0 | 4 | 4 |
| New Jersey | 11 | 12 | -6.0% | 0 | 0 | 11 | 12 | 0 | 0 | 0 | 0 |
| New York | 3,539 | 2,992 | 18.3% | 0 | 0 | 3,536 | 2,988 | 0 | 0 | 4 | 4 |
| Pennsylvania | 3,352 | 2,129 | 57.5% | 0 | 0 | 3,352 | 2,129 | 0 | 0 | 0 | 0 |
| East North Central | 18,610 | 14,612 | 27.4% | 2,205 | 1,242 | 16,374 | 13,357 | 1 | 1 | 29 | 12 |
| Illinois | 9,625 | 7,727 | 24.6% | 4 | 14 | 9,622 | 7,713 | 0 | 0 | 0 | 0 |
| Indiana | 3,481 | 3,210 | 8.4% | 0 | 0 | 3,480 | 3,209 | 1 | 1 | 0 | 0 |
| Michigan | 2,800 | 1,132 | 147.4% | 1,190 | 274 | 1,609 | 858 | 0 | 0 | 0 | 0 |
| Ohio | 1,146 | 985 | 16.3% | 14 | 14 | 1,102 | 959 | 0 | 0 | 29 | 12 |
| Wisconsin | 1,558 | 1,558 | 0.0% | 997 | 939 | 561 | 618 | 0 | 0 | 0 | 0 |
| West North Central | 44,436 | 37,561 | 18.3% | 13,791 | 12,051 | 30,614 | 25,479 | 31 | 31 | 0 | 0 |
| Iowa | 15,568 | 14,032 | 10.9% | 8,576 | 7,452 | 6,989 | 6,578 | 4 | 3 | 0 | 0 |
| Kansas | 9,433 | 5,195 | 81.6% | 917 | 852 | 8,516 | 4,343 | 0 | 0 | 0 | 0 |
| Minnesota | 8,259 | 7,615 | 8.4% | 1,762 | 1,613 | 6,469 | 5,975 | 28 | 28 | 0 | 0 |
| Missouri | 1,167 | 1,245 | -6.3% | 0 | 0 | 1,167 | 1,245 | 0 | 0 | 0 | 0 |
| Nebraska | 1,802 | 1,284 | 40.4% | 219 | 212 | 1,583 | 1,072 | 0 | 0 | 0 | 0 |
| North Dakota | 5,519 | 5,275 | 4.6% | 1,707 | 1,256 | 3,812 | 4,019 | 0 | 0 | 0 | 0 |
| South Dakota | 2,688 | 2,915 | -7.8% | 610 | 667 | 2,078 | 2,248 | 0 | 0 | 0 | 0 |
| South Atlantic | 1,713 | 1,611 | 6.3% | 0 | 0 | 1,708 | 1,608 | 4 | 4 | 0 | 0 |
| Delaware | 4 | 4 | 22.5% | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 322 | 322 | 0.0% | 0 | 0 | 322 | 322 | 0 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 1,387 | 1,286 | 7.8% | 0 | 0 | 1,387 | 1,286 | 0 | 0 | 0 | 0 |
| East South Central | 47 | 47 | -1.6% | 0 | 0 | 47 | 47 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 47 | 47 | -1.6% | 0 | 0 | 47 | 47 | 0 | 0 | 0 | 0 |
| West South Central | 47,036 | 40,372 | 16.5% | 1,951 | 1,912 | 45,085 | 38,459 | 0 | 0 | 0 | 0 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 11,162 | 8,158 | 36.8% | 1,630 | 1,594 | 9,532 | 6,564 | 0 | 0 | 0 | 0 |
| Texas | 35,874 | 32,214 | 11.4% | 321 | 319 | 35,553 | 31,895 | 0 | 0 | 0 | 0 |
| Mountain | 19,285 | 17,080 | 12.9% | 2,585 | 2,186 | 16,689 | 14,882 | 8 | 9 | 3 | 3 |
| Arizona | 450 | 532 | -15.4% | 0 | 0 | 450 | 532 | 0 | 0 | 0 | 0 |
| Colorado | 7,204 | 5,969 | 20.7% | 171 | 74 | 7,025 | 5,886 | 5 | 5 | 3 | 3 |
| Idaho | 2,460 | 1,891 | 30.1% | 133 | 60 | 2,328 | 1,830 | 0 | 0 | 0 | 0 |
| Montana | 1,755 | 1,262 | 39.1% | 237 | 101 | 1,517 | 1,161 | 0 | 0 | 0 | 0 |
| Nevada | 251 | 129 | 94.5% | 0 | 0 | 251 | 129 | 0 | 0 | 0 | 0 |
| New Mexico | 2,193 | 2,226 | -1.5% | 0 | 0 | 2,190 | 2,222 | 3 | 4 | 0 | 0 |
| Utah | 540 | 704 | -23.3% | 0 | 0 | 540 | 704 | 0 | 0 | 0 | 0 |
| Wyoming | 4,433 | 4,369 | 1.5% | 2,045 | 1,951 | 2,389 | 2,418 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 27,282 | 22,697 | 20.2% | 5,615 | 5,431 | 21,664 | 17,266 | 1 | 0 | 2 | 0 |
| California | 12,822 | 9,754 | 31.5% | 892 | 797 | 11,928 | 8,957 | 1 | 0 | 2 | 0 |
| Oregon | 7,456 | 6,343 | 17.5% | 1,397 | 1,299 | 6,059 | 5,044 | 0 | 0 | 0 | 0 |
| Washington | 7,004 | 6,600 | 6.1% | 3,327 | 3,335 | 3,678 | 3,265 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 649 | 416 | 56.1% | 99 | 19 | 550 | 396 | 0 | 0 | 0 | 0 |
| Alaska | 145 | 37 | 288.5% | 99 | 19 | 46 | 18 | 0 | 0 | 0 | 0 |
| Hawaii | 503 | 378 | 33.1% | 0 | 0 | 503 | 378 | 0 | 0 | 0 | 0 |
| U.S. Total | 167,840 | 140,822 | 19.2% | 26,436 | 22,926 | 141,306 | 117,822 | 61 | 54 | 37 | 19 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 3.18. Net Generation from Biomass
by State, by Sector, 2013 and 2012 (Thousand Megawatthours)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|------------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 7,480 | 7,229 | 3.5% | 676 | 570 | 4,485 | 4,428 | 160 | 125 | 2,160 | 2,105 |
| Connecticut | 652 | 667 | -2.2% | 0 | 0 | 626 | 667 | 26 | 0 | 0 | 0 |
| Maine | 3,846 | 3,212 | 19.7% | 0 | 0 | 1,595 | 1,581 | 91 | 92 | 2,160 | 1,539 |
| Massachusetts | 1,137 | 1,724 | -34.0% | 0 | 0 | 1,137 | 1,157 | 1 | 1 | 0 | 566 |
| New Hampshire | 1,306 | 1,173 | 11.4% | 359 | 347 | 907 | 795 | 40 | 31 | 0 | 0 |
| Rhode Island | 48 | 101 | -52.1% | 0 | 0 | 48 | 101 | 0 | 0 | 0 | 0 |
| Vermont | 491 | 353 | 39.1% | 317 | 223 | 172 | 128 | 2 | 2 | 0 | 0 |
| Middle Atlantic | 5,619 | 5,411 | 3.8% | 175 | 0 | 4,190 | 4,194 | 485 | 506 | 770 | 711 |
| New Jersey | 999 | 965 | 3.5% | 0 | 0 | 841 | 808 | 158 | 157 | 0 | 0 |
| New York | 2,282 | 2,148 | 6.2% | 175 | 0 | 1,651 | 1,687 | 209 | 220 | 247 | 242 |
| Pennsylvania | 2,339 | 2,298 | 1.8% | 0 | 0 | 1,697 | 1,699 | 119 | 130 | 523 | 469 |
| East North Central | 6,150 | 5,987 | 2.7% | 584 | 544 | 3,578 | 3,395 | 188 | 233 | 1,801 | 1,816 |
| Illinois | 608 | 615 | -1.2% | 0 | 0 | 608 | 615 | 0 | 0 | 0 | 0 |
| Indiana | 376 | 336 | 12.0% | 315 | 286 | 0 | 0 | 20 | 21 | 41 | 29 |
| Michigan | 2,715 | 2,654 | 2.3% | 0 | 0 | 1,747 | 1,652 | 146 | 196 | 822 | 806 |
| Ohio | 817 | 717 | 14.0% | 7 | 0 | 481 | 377 | 0 | 0 | 329 | 340 |
| Wisconsin | 1,634 | 1,666 | -1.9% | 262 | 258 | 742 | 751 | 22 | 16 | 608 | 641 |
| West North Central | 1,973 | 2,169 | -9.0% | 496 | 504 | 864 | 1,091 | 70 | 53 | 543 | 521 |
| Iowa | 159 | 151 | 5.1% | 24 | 27 | 86 | 86 | 27 | 25 | 21 | 12 |
| Kansas | 58 | 57 | 1.1% | 0 | 0 | 58 | 57 | 0 | 0 | 0 | 0 |
| Minnesota | 1,610 | 1,838 | -12.4% | 381 | 403 | 699 | 926 | 17 | 10 | 513 | 499 |
| Missouri | 74 | 54 | 37.6% | 41 | 28 | 22 | 21 | 8 | 0 | 3 | 5 |
| Nebraska | 67 | 63 | 6.6% | 49 | 46 | 0 | 0 | 18 | 17 | 0 | 0 |
| North Dakota | 5 | 6 | -1.1% | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 6 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 16,633 | 15,342 | 8.4% | 1,205 | 888 | 5,206 | 4,968 | 385 | 233 | 9,837 | 9,253 |
| Delaware | 57 | 105 | -45.3% | 0 | 0 | 57 | 105 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 4,449 | 4,330 | 2.7% | 92 | 85 | 2,183 | 2,209 | 33 | 36 | 2,141 | 2,001 |
| Georgia | 3,825 | 3,276 | 16.8% | 0 | 0 | 501 | 218 | 23 | 28 | 3,301 | 3,030 |
| Maryland | 556 | 554 | 0.4% | 0 | 0 | 401 | 378 | 29 | 35 | 126 | 141 |
| North Carolina | 2,610 | 2,564 | 1.8% | 0 | 1 | 1,221 | 1,227 | 70 | 3 | 1,318 | 1,334 |
| South Carolina | 2,226 | 2,143 | 3.8% | 439 | 458 | 86 | 40 | 0 | 0 | 1,702 | 1,646 |
| Virginia | 2,906 | 2,358 | 23.2% | 674 | 345 | 753 | 782 | 230 | 130 | 1,249 | 1,101 |
| West Virginia | 4 | 11 | -62.1% | 0 | 0 | 4 | 11 | 0 | 0 | 0 | 0 |
| East South Central | 5,694 | 5,395 | 5.5% | 99 | 96 | 290 | 250 | 0 | 0 | 5,305 | 5,050 |
| Alabama | 2,876 | 2,777 | 3.6% | 0 | 1 | 199 | 190 | 0 | 0 | 2,677 | 2,586 |
| Kentucky | 327 | 333 | -1.9% | 98 | 95 | 0 | 0 | 0 | 0 | 228 | 238 |
| Mississippi | 1,448 | 1,509 | -4.0% | 0 | 0 | 12 | 3 | 0 | 0 | 1,436 | 1,506 |
| Tennessee | 1,043 | 777 | 34.3% | 0 | 0 | 79 | 57 | 0 | 0 | 964 | 720 |
| West South Central | 6,454 | 6,138 | 5.2% | 0 | 0 | 862 | 815 | 40 | 41 | 5,553 | 5,282 |
| Arkansas | 1,601 | 1,660 | -3.6% | 0 | 0 | 100 | 65 | 5 | 6 | 1,496 | 1,590 |
| Louisiana | 2,787 | 2,430 | 14.7% | 0 | 0 | 73 | 60 | 0 | 0 | 2,714 | 2,370 |
| Oklahoma | 344 | 363 | -5.3% | 0 | 0 | 18 | 0 | 0 | 0 | 326 | 363 |
| Texas | 1,723 | 1,684 | 2.3% | 0 | 0 | 671 | 691 | 34 | 35 | 1,017 | 958 |
| Mountain | 1,027 | 911 | 12.8% | 39 | 36 | 585 | 475 | 0 | 3 | 403 | 397 |
| Arizona | 171 | 211 | -18.6% | 26 | 26 | 145 | 181 | 0 | 3 | 0 | 0 |
| Colorado | 84 | 58 | 45.2% | 2 | 0 | 82 | 58 | 0 | 0 | 0 | 0 |
| Idaho | 652 | 549 | 18.7% | 11 | 10 | 243 | 143 | 0 | 0 | 398 | 397 |
| Montana | 5 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Nevada | 24 | 19 | 28.0% | 0 | 0 | 24 | 19 | 0 | 0 | 0 | 0 |
| New Mexico | 19 | 14 | 29.8% | 0 | 0 | 19 | 14 | 0 | 0 | 0 | 0 |
| Utah | 71 | 60 | 19.1% | 0 | 0 | 71 | 60 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 9,446 | 8,757 | 7.9% | 732 | 648 | 5,128 | 4,682 | 1,046 | 996 | 2,540 | 2,431 |
| California | 6,635 | 6,311 | 5.1% | 205 | 231 | 4,670 | 4,328 | 1,017 | 974 | 744 | 779 |
| Oregon | 994 | 832 | 19.5% | 63 | 67 | 366 | 271 | 22 | 22 | 543 | 472 |
| Washington | 1,817 | 1,614 | 12.6% | 465 | 351 | 93 | 83 | 7 | 0 | 1,253 | 1,179 |
| Pacific Noncontiguous | 381 | 284 | 34.5% | 29 | 22 | 0 | 0 | 228 | 153 | 125 | 109 |
| Alaska | 52 | 3 | NM | 0 | 0 | 0 | 0 | 46 | 0 | 6 | 3 |
| Hawaii | 329 | 281 | 17.2% | 29 | 22 | 0 | 0 | 183 | 153 | 118 | 106 |
| U.S. Total | 60,858 | 57,622 | 5.6% | 4,034 | 3,308 | 25,187 | 24,298 | 2,601 | 2,343 | 29,037 | 27,674 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 3.19. Net Generation from Geothermal
by State, by Sector, 2013 and 2012 (Thousand Megawatthours)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|------------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Connecticut | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Hampshire | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East North Central | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ohio | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iowa | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Delaware | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mountain | 3,029 | 2,757 | 9.9% | 251 | 269 | 2,778 | 2,488 | 0 | 0 | 0 | 0 |
| Arizona | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 40 | 75 | -46.9% | 0 | 0 | 40 | 75 | 0 | 0 | 0 | 0 |
| Montana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 2,670 | 2,347 | 13.7% | 0 | 0 | 2,670 | 2,347 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 319 | 335 | -4.7% | 251 | 269 | 68 | 66 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 12,471 | 12,545 | -0.6% | 754 | 875 | 11,717 | 11,670 | 0 | 0 | 0 | 0 |
| California | 12,307 | 12,519 | -1.7% | 754 | 875 | 11,553 | 11,644 | 0 | 0 | 0 | 0 |
| Oregon | 165 | 26 | 541.9% | 0 | 0 | 165 | 26 | 0 | 0 | 0 | 0 |
| Washington | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 275 | 261 | 5.3% | 0 | 0 | 275 | 261 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 275 | 261 | 5.3% | 0 | 0 | 275 | 261 | 0 | 0 | 0 | 0 |
| U.S. Total | 15,775 | 15,562 | 1.4% | 1,005 | 1,143 | 14,770 | 14,419 | 0 | 0 | 0 | 0 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 3.20. Net Generation from Solar
by State, by Sector, 2013 and 2012 (Thousand Megawatthours)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|------------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 126 | 35 | 262.6% | 4 | 9 | 121 | 25 | 1 | 1 | 0 | 0 |
| Connecticut | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 106 | 30 | 259.5% | 4 | 9 | 102 | 20 | 1 | 1 | 0 | 0 |
| New Hampshire | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 2 | 0 | -- | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 17 | 5 | 241.5% | 0 | 0 | 17 | 5 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 568 | 389 | 45.8% | 41 | 41 | 434 | 303 | 83 | 37 | 10 | 8 |
| New Jersey | 437 | 304 | 43.7% | 41 | 41 | 312 | 225 | 83 | 37 | 1 | 1 |
| New York | 67 | 53 | 27.1% | 0 | 0 | 67 | 53 | 0 | 0 | 0 | 0 |
| Pennsylvania | 63 | 32 | 96.3% | 0 | 0 | 55 | 26 | 0 | 0 | 8 | 6 |
| East North Central | 129 | 67 | 91.2% | 7 | 6 | 119 | 61 | 3 | 0 | 0 | 0 |
| Illinois | 52 | 31 | 70.0% | 0 | 0 | 52 | 31 | 0 | 0 | 0 | 0 |
| Indiana | 31 | NM | NM | 0 | 0 | 31 | NM | 0 | 0 | 0 | 0 |
| Michigan | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ohio | 46 | 37 | 26.4% | 7 | 6 | 37 | 31 | 3 | 0 | 0 | 0 |
| Wisconsin | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 3 | 0 | -- | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| Iowa | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 3 | 0 | -- | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 677 | 381 | 77.8% | 187 | 168 | 435 | 209 | 56 | 5 | 0 | 0 |
| Delaware | 45 | 23 | 98.3% | 2 | 2 | 43 | 20 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 210 | 194 | 8.4% | 170 | 159 | 38 | 34 | 2 | 1 | 0 | 0 |
| Georgia | 14 | 3 | 396.4% | 0 | 0 | 11 | NM | 3 | 2 | 0 | 0 |
| Maryland | 63 | 22 | 182.5% | 9 | 3 | 51 | 18 | 4 | 1 | 0 | 0 |
| North Carolina | 345 | 139 | 147.1% | 7 | 4 | 291 | 135 | 47 | 1 | 0 | 0 |
| South Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 20 | 12 | 67.4% | 0 | 0 | 18 | 10 | 2 | NM | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 20 | 12 | 67.4% | 0 | 0 | 18 | 10 | 2 | NM | 0 | 0 |
| West South Central | 163 | 118 | 37.8% | 0 | 0 | 161 | 118 | 2 | 1 | 0 | 0 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 163 | 118 | 37.8% | 0 | 0 | 161 | 118 | 2 | 1 | 0 | 0 |
| Mountain | 3,495 | 1,930 | 81.1% | 333 | 210 | 3,094 | 1,665 | 65 | 52 | 3 | 3 |
| Arizona | 2,111 | 955 | 121.0% | 276 | 162 | 1,816 | 789 | 20 | 4 | 0 | 0 |
| Colorado | 248 | 165 | 50.2% | 0 | 0 | 234 | 150 | 14 | 16 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 745 | 473 | 57.4% | 0 | 0 | 711 | 438 | 32 | 32 | 3 | 3 |
| New Mexico | 388 | 334 | 16.3% | 57 | 48 | 331 | 286 | 0 | 0 | 0 | 0 |
| Utah | 2 | 2 | 29.7% | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 3,835 | 1,390 | 176.0% | 371 | 205 | 3,378 | 1,130 | 82 | 51 | 5 | 4 |
| California | 3,814 | 1,382 | 175.9% | 364 | 202 | 3,364 | 1,126 | 82 | 51 | 5 | 4 |
| Oregon | 20 | 6 | 219.6% | 7 | 3 | 14 | 4 | 0 | 0 | 0 | 0 |
| Washington | 1 | 1 | -4.0% | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 19 | 5 | 322.4% | 0 | 0 | 19 | 5 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 19 | 5 | 322.4% | 0 | 0 | 19 | 5 | 0 | 0 | 0 | 0 |
| U.S. Total | 9,036 | 4,327 | 108.8% | 943 | 639 | 7,782 | 3,525 | 294 | 148 | 17 | 14 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 3.21. Useful Thermal Output by Energy Source: Total Combined Heat and Power (All Sectors), 2003 - 2013
(Billion Btus)**

| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Renewable Sources | Other | Total |
|----------------------|---------|-------------------|----------------|-------------|-----------|-------------------|--------|-----------|
| Annual Totals | | | | | | | | |
| 2003 | 333,361 | 68,329 | 16,934 | 610,122 | 110,263 | 632,366 | 54,960 | 1,826,335 |
| 2004 | 351,871 | 80,824 | 16,659 | 654,242 | 126,157 | 667,341 | 45,456 | 1,942,550 |
| 2005 | 341,806 | 79,362 | 13,021 | 624,008 | 138,469 | 664,691 | 41,400 | 1,902,757 |
| 2006 | 332,548 | 54,224 | 24,009 | 603,288 | 126,049 | 689,549 | 49,308 | 1,878,973 |
| 2007 | 326,803 | 50,882 | 25,373 | 554,394 | 116,313 | 651,230 | 46,822 | 1,771,816 |
| 2008 | 315,244 | 29,554 | 18,263 | 509,330 | 110,680 | 610,131 | 23,729 | 1,616,931 |
| 2009 | 281,557 | 32,591 | 20,308 | 513,002 | 99,556 | 546,974 | 33,287 | 1,527,276 |
| 2010 | 300,303 | 19,914 | 21,448 | 524,494 | 91,439 | 581,310 | 28,755 | 1,567,662 |
| 2011 | 286,210 | 15,230 | 21,552 | 535,150 | 103,615 | 586,299 | 31,067 | 1,579,124 |
| 2012 | 252,605 | 12,452 | 24,419 | 556,945 | 113,147 | 580,513 | 24,571 | 1,564,653 |
| 2013 | 243,043 | 12,828 | 25,224 | 553,696 | 103,719 | 611,443 | 22,171 | 1,572,124 |
| 2011 | | | | | | | | |
| January | 28,049 | 2,161 | 1,867 | 45,950 | 7,869 | 53,111 | 1,943 | 140,950 |
| February | 24,489 | 1,437 | 1,798 | 41,202 | 8,688 | 46,989 | 2,404 | 127,007 |
| March | 25,103 | 1,325 | 1,669 | 42,279 | 8,789 | 49,555 | 2,621 | 131,341 |
| April | 22,645 | 1,150 | 1,857 | 40,914 | 7,980 | 45,774 | 2,332 | 122,652 |
| May | 23,267 | 1,140 | 1,903 | 42,606 | 8,549 | 45,054 | 2,616 | 125,135 |
| June | 22,940 | 1,148 | 1,811 | 42,816 | 8,424 | 48,089 | 2,747 | 127,974 |
| July | 24,535 | 1,096 | 1,847 | 49,682 | 8,484 | 48,877 | 2,714 | 137,236 |
| August | 24,093 | 1,135 | 1,610 | 50,264 | 8,442 | 49,078 | 2,749 | 137,371 |
| September | 22,602 | 1,096 | 1,783 | 45,244 | 9,122 | 48,147 | 2,709 | 130,703 |
| October | 22,495 | 1,238 | 1,825 | 42,548 | 9,477 | 48,366 | 2,762 | 128,711 |
| November | 22,098 | 1,163 | 1,740 | 43,060 | 8,591 | 50,337 | 2,652 | 129,641 |
| December | 23,893 | 1,140 | 1,841 | 48,587 | 9,203 | 52,922 | 2,817 | 140,403 |
| 2012 | | | | | | | | |
| January | 25,211 | 2,281 | 2,292 | 47,409 | 9,732 | 49,808 | 2,107 | 138,839 |
| February | 22,416 | 961 | 2,017 | 43,785 | 9,416 | 47,023 | 2,035 | 127,654 |
| March | 21,458 | 1,057 | 2,012 | 44,005 | 9,956 | 48,544 | 1,937 | 128,970 |
| April | 18,141 | 850 | 1,507 | 44,946 | 10,053 | 44,838 | 1,866 | 122,201 |
| May | 20,238 | 923 | 1,627 | 45,801 | 9,832 | 47,116 | 2,073 | 127,611 |
| June | 19,799 | 878 | 1,881 | 47,072 | 9,567 | 46,476 | 2,182 | 127,855 |
| July | 21,190 | 913 | 2,175 | 52,025 | 9,516 | 48,617 | 2,028 | 136,463 |
| August | 21,162 | 908 | 2,386 | 50,360 | 9,883 | 48,931 | 2,145 | 135,775 |
| September | 19,447 | 782 | 2,072 | 45,635 | 8,567 | 48,066 | 1,957 | 126,527 |
| October | 20,317 | 999 | 2,205 | 44,727 | 8,350 | 49,311 | 2,034 | 127,943 |
| November | 21,049 | 920 | 2,165 | 43,801 | 8,466 | 49,926 | 2,039 | 128,366 |
| December | 22,177 | 979 | 2,079 | 47,379 | 9,809 | 51,858 | 2,168 | 136,450 |
| 2013 | | | | | | | | |
| January | 22,527 | 1,347 | 2,290 | 46,795 | 9,100 | 53,279 | 1,887 | 137,225 |
| February | 20,302 | 1,158 | 1,850 | 42,052 | 8,059 | 47,778 | 1,774 | 122,972 |
| March | 21,781 | 913 | 2,166 | 46,138 | 8,872 | 51,075 | 1,972 | 132,917 |
| April | 18,929 | 975 | 1,789 | 44,169 | 8,493 | 49,214 | 1,833 | 125,403 |
| May | 19,531 | 984 | 2,151 | 44,384 | 8,700 | 49,408 | 1,551 | 126,709 |
| June | 19,011 | 924 | 2,215 | 44,436 | 8,337 | 49,882 | 1,824 | 126,628 |
| July | 20,221 | 887 | 2,370 | 49,098 | 8,886 | 53,519 | 1,953 | 136,934 |
| August | 19,643 | 819 | 2,691 | 48,839 | 8,644 | 52,218 | 2,074 | 134,927 |
| September | 18,556 | 808 | 2,017 | 45,755 | 8,338 | 48,342 | 1,898 | 125,715 |
| October | 19,549 | 888 | 2,071 | 45,314 | 8,378 | 50,312 | 1,823 | 128,335 |
| November | 21,524 | 914 | 1,615 | 46,565 | 8,160 | 52,107 | 1,767 | 132,650 |
| December | 21,471 | 2,213 | 1,999 | 50,152 | 9,751 | 54,309 | 1,814 | 141,708 |

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, and solar thermal.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

Beginning with the collection of Form EIA-923 in January 2008, the methodology for separating the fuel used for electricity generation and useful thermal output from combined heat and power plants changed. The new methodology was retroactively applied to 2004-2007. See the Technical Notes (Appendix C) for further information.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;

Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.22. Useful Thermal Output by Energy Source: Electric Power Sector Combined Heat and Power, 2003 - 2013
(Billion Btus)

| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Renewable Sources | Other | Total |
|----------------------|--------|-------------------|----------------|-------------|-----------|-------------------|-------|---------|
| Annual Totals | | | | | | | | |
| 2003 | 38,249 | 5,551 | 1,828 | 200,077 | 9,282 | 19,785 | 3,296 | 278,068 |
| 2004 | 39,014 | 5,731 | 2,486 | 239,416 | 18,200 | 17,347 | 3,822 | 326,017 |
| 2005 | 39,652 | 5,571 | 2,238 | 239,324 | 36,694 | 18,240 | 3,884 | 345,605 |
| 2006 | 38,133 | 4,812 | 2,253 | 207,095 | 22,567 | 17,284 | 4,435 | 296,579 |
| 2007 | 38,260 | 5,294 | 1,862 | 212,705 | 20,473 | 19,166 | 4,459 | 302,219 |
| 2008 | 37,220 | 5,479 | 1,353 | 204,167 | 22,109 | 17,052 | 4,854 | 292,234 |
| 2009 | 38,015 | 5,341 | 1,445 | 190,875 | 19,830 | 17,625 | 5,055 | 278,187 |
| 2010 | 38,325 | 4,702 | 1,108 | 186,772 | 19,707 | 17,589 | 5,040 | 273,244 |
| 2011 | 35,209 | 4,484 | 1,231 | 190,712 | 20,435 | 16,029 | 6,044 | 274,143 |
| 2012 | 26,093 | 4,405 | 1,246 | 200,294 | 20,948 | 16,369 | 5,545 | 274,900 |
| 2013 | 21,306 | 4,614 | 993 | 188,094 | 10,303 | 16,225 | 4,966 | 246,501 |
| 2011 | | | | | | | | |
| January | 3,424 | 410 | 55 | 16,673 | 1,708 | 1,727 | 550 | 24,547 |
| February | 3,031 | 312 | 92 | 15,005 | 1,594 | 1,555 | 521 | 22,108 |
| March | 3,095 | 334 | 122 | 15,548 | 1,854 | 1,329 | 546 | 22,828 |
| April | 2,804 | 376 | 102 | 14,699 | 1,625 | 998 | 419 | 21,023 |
| May | 3,122 | 371 | 119 | 14,857 | 1,735 | 1,223 | 533 | 21,960 |
| June | 2,756 | 372 | 102 | 15,092 | 1,601 | 1,248 | 527 | 21,699 |
| July | 3,057 | 393 | 119 | 18,064 | 1,718 | 1,341 | 514 | 25,206 |
| August | 2,975 | 410 | 116 | 17,845 | 1,683 | 1,278 | 477 | 24,785 |
| September | 2,753 | 401 | 114 | 15,831 | 1,748 | 1,274 | 452 | 22,571 |
| October | 2,788 | 391 | 86 | 14,690 | 1,693 | 1,313 | 491 | 21,451 |
| November | 2,530 | 370 | 94 | 15,247 | 1,660 | 1,337 | 454 | 21,692 |
| December | 2,874 | 344 | 112 | 17,161 | 1,817 | 1,405 | 560 | 24,273 |
| 2012 | | | | | | | | |
| January | 2,725 | 514 | 122 | 17,364 | 1,820 | 1,457 | 454 | 24,454 |
| February | 2,268 | 350 | 118 | 15,957 | 1,730 | 1,345 | 449 | 22,217 |
| March | 2,127 | 235 | 114 | 14,749 | 1,906 | 1,533 | 529 | 21,193 |
| April | 1,623 | 291 | 95 | 15,972 | 1,739 | 1,094 | 440 | 21,254 |
| May | 2,208 | 381 | 120 | 17,100 | 1,629 | 1,117 | 420 | 22,974 |
| June | 2,155 | 400 | 63 | 17,381 | 1,669 | 1,342 | 468 | 23,476 |
| July | 2,304 | 360 | 103 | 18,668 | 1,770 | 1,254 | 429 | 24,888 |
| August | 2,415 | 370 | 105 | 18,647 | 1,785 | 1,355 | 486 | 25,163 |
| September | 2,203 | 355 | 104 | 16,124 | 1,736 | 1,237 | 447 | 22,206 |
| October | 2,180 | 387 | 98 | 15,749 | 1,750 | 1,505 | 456 | 22,125 |
| November | 1,954 | 377 | 98 | 15,033 | 1,575 | 1,536 | 468 | 21,041 |
| December | 1,932 | 384 | 107 | 17,550 | 1,840 | 1,596 | 500 | 23,909 |
| 2013 | | | | | | | | |
| January | 1,963 | 270 | 89 | 15,710 | 847 | 1,725 | 358 | 20,963 |
| February | 1,672 | 337 | 74 | 14,419 | 718 | 1,424 | 409 | 19,053 |
| March | 1,871 | 392 | 92 | 15,592 | 649 | 1,516 | 424 | 20,536 |
| April | 1,652 | 394 | 93 | 14,876 | 803 | 1,341 | 345 | 19,504 |
| May | 1,715 | 412 | 79 | 15,015 | 852 | 1,001 | 343 | 19,417 |
| June | 1,743 | 380 | 53 | 15,252 | 860 | 1,204 | 446 | 19,938 |
| July | 1,915 | 401 | 91 | 17,084 | 1,010 | 1,260 | 478 | 22,238 |
| August | 1,878 | 396 | 86 | 16,963 | 1,013 | 1,309 | 472 | 22,116 |
| September | 1,751 | 409 | 69 | 15,582 | 882 | 1,173 | 443 | 20,307 |
| October | 1,357 | 427 | 89 | 14,781 | 942 | 1,340 | 402 | 19,339 |
| November | 2,061 | 388 | 84 | 15,694 | 869 | 1,444 | 429 | 20,968 |
| December | 1,729 | 409 | 95 | 17,126 | 858 | 1,488 | 418 | 22,122 |

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, and solar thermal.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

Beginning with the collection of Form EIA-923 in January 2008, the methodology for separating the fuel used for electricity generation and useful thermal output from combined heat and power plants changed. The new methodology was retroactively applied to 2004-2007. See the Technical Notes (Appendix C) for further information.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;

Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.23. Useful Thermal Output by Energy Source: Commercial Sector Combined Heat and Power, 2003 - 2013
(Billion Btus)

| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Renewable Sources | Other | Total |
|----------------------|--------|-------------------|----------------|-------------|-----------|-------------------|-------|--------|
| Annual Totals | | | | | | | | |
| 2003 | 22,780 | 2,520 | 196 | 16,955 | 0 | 8,296 | 6,142 | 56,889 |
| 2004 | 22,450 | 4,118 | 165 | 21,851 | 0 | 8,936 | 6,350 | 63,871 |
| 2005 | 22,601 | 3,518 | 166 | 20,227 | 0 | 8,647 | 5,921 | 61,081 |
| 2006 | 22,186 | 2,092 | 172 | 19,370 | 0 | 9,359 | 6,242 | 59,422 |
| 2007 | 22,595 | 1,640 | 221 | 20,040 | 0 | 6,651 | 3,983 | 55,131 |
| 2008 | 22,991 | 1,822 | 177 | 20,183 | 0 | 8,863 | 6,054 | 60,091 |
| 2009 | 20,057 | 1,095 | 155 | 25,902 | 0 | 8,450 | 5,761 | 61,420 |
| 2010 | 19,216 | 845 | 216 | 29,791 | 13 | 7,917 | 5,333 | 63,330 |
| 2011 | 17,234 | 687 | 111 | 24,848 | 14 | 7,433 | 5,988 | 56,314 |
| 2012 | 13,992 | 523 | 229 | 27,922 | 0 | 7,970 | 6,426 | 57,063 |
| 2013 | 10,942 | 1,017 | 222 | 27,562 | 0 | 7,054 | 5,693 | 52,489 |
| 2011 | | | | | | | | |
| January | 1,966 | 310 | 26 | 2,275 | 1 | 542 | 348 | 5,469 |
| February | 1,770 | 91 | 21 | 1,857 | 1 | 511 | 376 | 4,627 |
| March | 1,665 | 33 | 25 | 1,771 | 1 | 554 | 529 | 4,579 |
| April | 1,263 | 9 | 0 | 1,657 | 1 | 562 | 428 | 3,921 |
| May | 1,306 | 29 | 0 | 1,817 | 1 | 612 | 535 | 4,301 |
| June | 1,378 | 15 | 0 | 1,778 | 1 | 664 | 568 | 4,404 |
| July | 1,534 | 37 | 0 | 2,435 | 1 | 623 | 521 | 5,152 |
| August | 1,372 | 33 | 0 | 2,442 | 1 | 726 | 580 | 5,154 |
| September | 1,272 | 40 | 0 | 2,130 | 1 | 622 | 584 | 4,649 |
| October | 1,086 | 16 | 0 | 1,979 | 1 | 613 | 493 | 4,189 |
| November | 1,176 | 62 | 12 | 2,163 | 1 | 720 | 491 | 4,624 |
| December | 1,445 | 11 | 28 | 2,544 | 1 | 683 | 533 | 5,245 |
| 2012 | | | | | | | | |
| January | 1,539 | 235 | 29 | 2,378 | 0 | 681 | 593 | 5,455 |
| February | 1,340 | 13 | 25 | 2,289 | 0 | 624 | 506 | 4,798 |
| March | 1,216 | 35 | 23 | 2,179 | 0 | 613 | 467 | 4,533 |
| April | 941 | 6 | 2 | 2,027 | 0 | 632 | 456 | 4,063 |
| May | 1,072 | 8 | 0 | 2,100 | 0 | 650 | 580 | 4,410 |
| June | 1,072 | 15 | 0 | 2,209 | 0 | 633 | 609 | 4,539 |
| July | 1,163 | 113 | 22 | 2,822 | 0 | 699 | 537 | 5,356 |
| August | 1,159 | 30 | 26 | 2,708 | 0 | 723 | 579 | 5,224 |
| September | 1,019 | 8 | 25 | 2,493 | 0 | 654 | 558 | 4,757 |
| October | 950 | 6 | 27 | 2,324 | 0 | 723 | 508 | 4,537 |
| November | 1,152 | 30 | 24 | 2,204 | 0 | 626 | 488 | 4,525 |
| December | 1,369 | 25 | 26 | 2,190 | 0 | 712 | 544 | 4,866 |
| 2013 | | | | | | | | |
| January | 1,259 | 339 | 32 | 2,301 | 0 | 607 | 501 | 5,039 |
| February | 1,171 | 133 | 29 | 2,101 | 0 | 538 | 471 | 4,444 |
| March | 1,102 | 10 | 28 | 2,223 | 0 | 617 | 557 | 4,537 |
| April | 742 | 11 | 4 | 1,916 | 0 | 619 | 505 | 3,797 |
| May | 856 | 22 | 0 | 1,989 | 0 | 606 | 372 | 3,844 |
| June | 807 | 25 | 0 | 2,162 | 0 | 617 | 484 | 4,095 |
| July | 800 | 57 | 2 | 2,617 | 0 | 575 | 515 | 4,566 |
| August | 807 | 20 | 28 | 2,557 | 0 | 575 | 510 | 4,497 |
| September | 744 | 12 | 25 | 2,327 | 0 | 590 | 480 | 4,178 |
| October | 677 | 21 | 24 | 2,266 | 0 | 571 | 450 | 4,008 |
| November | 911 | 41 | 21 | 2,370 | 0 | 530 | 415 | 4,289 |
| December | 1,065 | 326 | 29 | 2,732 | 0 | 610 | 432 | 5,194 |

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, and solar thermal.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

Beginning with the collection of Form EIA-923 in January 2008, the methodology for separating the fuel used for electricity generation and useful thermal output from combined heat and power plants changed. The new methodology was retroactively applied to 2004-2007. See the Technical Notes (Appendix C) for further information.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;

Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.24. Useful Thermal Output by Energy Source: Industrial Sector Combined Heat and Power, 2003 - 2013
(Billion Btus)

| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Renewable Sources | Other | Total |
|----------------------|---------|-------------------|----------------|-------------|-----------|-------------------|--------|-----------|
| Annual Totals | | | | | | | | |
| 2003 | 272,332 | 60,258 | 14,910 | 393,090 | 100,981 | 604,285 | 45,522 | 1,491,378 |
| 2004 | 290,407 | 70,976 | 14,008 | 392,974 | 107,956 | 641,058 | 35,284 | 1,552,663 |
| 2005 | 279,552 | 70,273 | 10,616 | 364,457 | 101,775 | 637,803 | 31,594 | 1,496,071 |
| 2006 | 272,229 | 47,320 | 21,584 | 376,822 | 103,481 | 662,906 | 38,630 | 1,522,971 |
| 2007 | 265,948 | 43,948 | 23,290 | 321,648 | 95,840 | 625,413 | 38,380 | 1,414,466 |
| 2008 | 255,032 | 22,253 | 16,733 | 284,980 | 88,571 | 584,216 | 12,821 | 1,264,606 |
| 2009 | 223,485 | 26,155 | 18,708 | 296,225 | 79,726 | 520,898 | 22,471 | 1,187,669 |
| 2010 | 242,762 | 14,366 | 20,124 | 307,931 | 71,719 | 555,804 | 18,382 | 1,231,088 |
| 2011 | 233,767 | 10,059 | 20,209 | 319,590 | 83,167 | 562,838 | 19,035 | 1,248,666 |
| 2012 | 212,520 | 7,524 | 22,944 | 328,729 | 92,199 | 556,174 | 12,599 | 1,232,689 |
| 2013 | 210,795 | 7,196 | 24,009 | 338,041 | 93,416 | 588,165 | 11,512 | 1,273,134 |
| 2011 | | | | | | | | |
| January | 22,659 | 1,441 | 1,787 | 27,002 | 6,159 | 50,841 | 1,044 | 110,933 |
| February | 19,689 | 1,034 | 1,685 | 24,341 | 7,093 | 44,923 | 1,507 | 100,271 |
| March | 20,342 | 958 | 1,522 | 24,960 | 6,934 | 47,672 | 1,546 | 103,933 |
| April | 18,577 | 765 | 1,756 | 24,557 | 6,354 | 44,215 | 1,485 | 97,709 |
| May | 18,839 | 739 | 1,783 | 25,932 | 6,813 | 43,219 | 1,547 | 98,873 |
| June | 18,806 | 761 | 1,709 | 25,946 | 6,821 | 46,177 | 1,652 | 101,872 |
| July | 19,944 | 666 | 1,728 | 29,183 | 6,765 | 46,913 | 1,678 | 106,879 |
| August | 19,746 | 692 | 1,494 | 29,976 | 6,758 | 47,073 | 1,692 | 107,432 |
| September | 18,576 | 656 | 1,670 | 27,284 | 7,373 | 46,251 | 1,674 | 103,483 |
| October | 18,621 | 831 | 1,740 | 25,879 | 7,783 | 46,439 | 1,778 | 103,072 |
| November | 18,392 | 731 | 1,634 | 25,650 | 6,930 | 48,280 | 1,708 | 103,324 |
| December | 19,575 | 786 | 1,701 | 28,882 | 7,384 | 50,834 | 1,724 | 110,885 |
| 2012 | | | | | | | | |
| January | 20,947 | 1,532 | 2,141 | 27,667 | 7,912 | 47,670 | 1,060 | 108,930 |
| February | 18,809 | 598 | 1,874 | 25,539 | 7,686 | 45,053 | 1,080 | 100,639 |
| March | 18,116 | 787 | 1,875 | 27,078 | 8,050 | 46,398 | 941 | 103,244 |
| April | 15,577 | 552 | 1,410 | 26,947 | 8,314 | 43,112 | 970 | 96,884 |
| May | 16,959 | 534 | 1,507 | 26,601 | 8,203 | 45,350 | 1,073 | 100,227 |
| June | 16,572 | 463 | 1,818 | 27,482 | 7,899 | 44,501 | 1,105 | 99,839 |
| July | 17,723 | 440 | 2,051 | 30,535 | 7,745 | 46,664 | 1,061 | 106,219 |
| August | 17,588 | 508 | 2,255 | 29,005 | 8,098 | 46,854 | 1,080 | 105,388 |
| September | 16,225 | 419 | 1,943 | 27,018 | 6,831 | 46,176 | 952 | 99,564 |
| October | 17,187 | 607 | 2,080 | 26,654 | 6,601 | 47,083 | 1,070 | 101,281 |
| November | 17,942 | 513 | 2,044 | 26,564 | 6,892 | 47,763 | 1,082 | 102,800 |
| December | 18,875 | 570 | 1,946 | 27,640 | 7,969 | 49,551 | 1,124 | 107,675 |
| 2013 | | | | | | | | |
| January | 19,306 | 737 | 2,168 | 28,784 | 8,253 | 50,947 | 1,028 | 111,223 |
| February | 17,459 | 687 | 1,746 | 25,532 | 7,341 | 45,816 | 894 | 99,475 |
| March | 18,808 | 511 | 2,046 | 28,323 | 8,223 | 48,942 | 991 | 107,844 |
| April | 16,535 | 569 | 1,692 | 27,378 | 7,690 | 47,255 | 983 | 102,102 |
| May | 16,960 | 550 | 2,072 | 27,380 | 7,848 | 47,801 | 836 | 103,448 |
| June | 16,461 | 519 | 2,162 | 27,022 | 7,476 | 48,061 | 894 | 102,595 |
| July | 17,506 | 429 | 2,278 | 29,397 | 7,876 | 51,684 | 960 | 110,130 |
| August | 16,958 | 403 | 2,577 | 29,318 | 7,632 | 50,334 | 1,092 | 108,314 |
| September | 16,061 | 388 | 1,923 | 27,846 | 7,457 | 46,579 | 975 | 101,230 |
| October | 17,514 | 440 | 1,958 | 28,267 | 7,435 | 48,401 | 972 | 104,988 |
| November | 18,551 | 485 | 1,510 | 28,500 | 7,291 | 50,133 | 923 | 107,393 |
| December | 18,676 | 1,478 | 1,875 | 30,294 | 8,893 | 52,211 | 964 | 114,392 |

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, and solar thermal.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

Beginning with the collection of Form EIA-923 in January 2008, the methodology for separating the fuel used for electricity generation and useful thermal output from combined heat and power plants changed. The new methodology was retroactively applied to 2004-2007. See the Technical Notes (Appendix C) for further information.

See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;

Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Chapter 4

Generation Capacity

Table 4.1. Count of Electric Power Industry Power Plants, by Sector, by Predominant Energy Sources within Plant, 2003 through 2013

| Year | Coal | Petroleum | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional | Other Renewables | Hydroelectric Pumped Storage | Other Energy Sources |
|--|------|-----------|-------------|-------------|---------|----------------------------|------------------|------------------------------|----------------------|
| Total (All Sectors) | | | | | | | | | |
| 2003 | 629 | 1,166 | 1,693 | 40 | 66 | 1,425 | 741 | 38 | 27 |
| 2004 | 625 | 1,143 | 1,670 | 46 | 66 | 1,425 | 749 | 39 | 28 |
| 2005 | 619 | 1,133 | 1,664 | 44 | 66 | 1,422 | 781 | 39 | 29 |
| 2006 | 616 | 1,148 | 1,659 | 46 | 66 | 1,421 | 843 | 39 | 29 |
| 2007 | 606 | 1,163 | 1,659 | 46 | 66 | 1,424 | 929 | 39 | 25 |
| 2008 | 598 | 1,170 | 1,655 | 43 | 66 | 1,423 | 1,076 | 39 | 29 |
| 2009 | 593 | 1,168 | 1,652 | 43 | 66 | 1,427 | 1,219 | 39 | 28 |
| 2010 | 580 | 1,169 | 1,657 | 48 | 66 | 1,432 | 1,355 | 39 | 32 |
| 2011 | 589 | 1,146 | 1,646 | 41 | 66 | 1,434 | 1,582 | 40 | 54 |
| 2012 | 557 | 1,129 | 1,714 | 44 | 66 | 1,426 | 1,956 | 41 | 64 |
| 2013 | 518 | 1,101 | 1,725 | 44 | 63 | 1,435 | 2,299 | 41 | 78 |
| Electric Utilities | | | | | | | | | |
| 2003 | 359 | 827 | 715 | 1 | 37 | 912 | 64 | 33 | 1 |
| 2004 | 357 | 816 | 722 | 2 | 37 | 908 | 65 | 34 | 1 |
| 2005 | 353 | 813 | 743 | 1 | 37 | 906 | 71 | 34 | 1 |
| 2006 | 353 | 832 | 758 | 1 | 37 | 905 | 84 | 34 | 1 |
| 2007 | 351 | 851 | 767 | 1 | 37 | 904 | 93 | 34 | 1 |
| 2008 | 348 | 866 | 774 | -- | 37 | 902 | 107 | 34 | 1 |
| 2009 | 340 | 855 | 768 | -- | 34 | 887 | 129 | 34 | 1 |
| 2010 | 333 | 855 | 775 | 3 | 34 | 888 | 155 | 34 | -- |
| 2011 | 332 | 829 | 777 | -- | 34 | 884 | 189 | 35 | 1 |
| 2012 | 315 | 815 | 797 | -- | 34 | 875 | 238 | 36 | 5 |
| 2013 | 300 | 795 | 787 | 1 | 32 | 873 | 253 | 36 | 15 |
| Independent Power Producers, Non-Combined Heat and Power Plants | | | | | | | | | |
| 2003 | 99 | 182 | 350 | -- | 29 | 456 | 468 | 5 | 2 |
| 2004 | 100 | 173 | 355 | 1 | 29 | 457 | 478 | 5 | 2 |
| 2005 | 101 | 170 | 357 | 2 | 29 | 456 | 502 | 5 | 2 |
| 2006 | 101 | 166 | 356 | 2 | 29 | 458 | 552 | 5 | 2 |
| 2007 | 101 | 166 | 364 | 1 | 29 | 462 | 625 | 5 | 1 |
| 2008 | 99 | 166 | 365 | -- | 29 | 464 | 751 | 5 | 2 |
| 2009 | 100 | 173 | 377 | 1 | 32 | 485 | 868 | 5 | 2 |
| 2010 | 102 | 175 | 380 | 1 | 32 | 488 | 966 | 5 | 6 |
| 2011 | 98 | 166 | 373 | -- | 32 | 490 | 1,106 | 5 | 12 |
| 2012 | 88 | 150 | 368 | -- | 32 | 494 | 1,388 | 5 | 16 |
| 2013 | 86 | 147 | 384 | 1 | 31 | 505 | 1,670 | 5 | 15 |
| Independent Power Producers, Combined Heat and Power Plants | | | | | | | | | |
| 2003 | 49 | 17 | 187 | 3 | -- | -- | 34 | -- | -- |
| 2004 | 48 | 15 | 180 | 3 | -- | -- | 30 | -- | -- |
| 2005 | 48 | 14 | 177 | 3 | -- | -- | 33 | -- | -- |
| 2006 | 50 | 15 | 173 | 4 | -- | -- | 32 | -- | -- |
| 2007 | 48 | 12 | 170 | 4 | -- | -- | 32 | -- | -- |
| 2008 | 47 | 12 | 169 | 3 | -- | -- | 36 | -- | -- |
| 2009 | 51 | 10 | 166 | 3 | -- | -- | 41 | -- | -- |
| 2010 | 48 | 10 | 161 | 2 | -- | -- | 41 | -- | -- |
| 2011 | 45 | 11 | 156 | 1 | -- | -- | 38 | -- | 1 |
| 2012 | 42 | 12 | 157 | 2 | -- | -- | 47 | -- | -- |
| 2013 | 35 | 11 | 152 | 2 | -- | 1 | 51 | -- | 5 |
| Commercial Sector | | | | | | | | | |
| 2003 | 22 | 65 | 121 | -- | -- | 9 | 44 | -- | -- |
| 2004 | 21 | 65 | 121 | 1 | -- | 9 | 46 | -- | -- |
| 2005 | 20 | 64 | 113 | 1 | -- | 9 | 48 | -- | -- |
| 2006 | 22 | 62 | 109 | 1 | -- | 9 | 47 | -- | -- |
| 2007 | 20 | 64 | 106 | 1 | -- | 9 | 47 | -- | 1 |
| 2008 | 20 | 62 | 106 | 1 | -- | 9 | 49 | -- | 1 |
| 2009 | 18 | 68 | 107 | 1 | -- | 9 | 47 | -- | 1 |
| 2010 | 17 | 69 | 110 | 1 | -- | 9 | 57 | -- | 1 |
| 2011 | 22 | 80 | 118 | -- | -- | 10 | 105 | -- | 2 |
| 2012 | 22 | 89 | 153 | -- | -- | 9 | 129 | -- | 2 |
| 2013 | 19 | 92 | 164 | -- | -- | 9 | 160 | -- | 3 |
| Industrial Sector | | | | | | | | | |
| 2003 | 100 | 71 | 310 | 36 | -- | 48 | 130 | -- | 24 |
| 2004 | 99 | 74 | 292 | 39 | -- | 51 | 130 | -- | 25 |
| 2005 | 97 | 72 | 274 | 37 | -- | 51 | 127 | -- | 26 |
| 2006 | 90 | 73 | 263 | 38 | -- | 49 | 128 | -- | 26 |
| 2007 | 86 | 70 | 252 | 39 | -- | 49 | 132 | -- | 22 |
| 2008 | 84 | 64 | 241 | 39 | -- | 48 | 133 | -- | 25 |
| 2009 | 84 | 62 | 234 | 38 | -- | 46 | 134 | -- | 24 |
| 2010 | 80 | 60 | 231 | 41 | -- | 47 | 136 | -- | 25 |
| 2011 | 92 | 60 | 222 | 40 | -- | 50 | 144 | -- | 38 |
| 2012 | 90 | 63 | 239 | 42 | -- | 48 | 154 | -- | 41 |
| 2013 | 78 | 56 | 238 | 40 | -- | 47 | 165 | -- | 40 |

Notes: The number of power plants for each energy source is the number of sites for which the respective energy source was reported as the most predominant energy source for at least one of its generators. If all generators for a site have the same energy source reported as the most predominant, that site will be counted once under that energy source. However, if the most predominant energy source is not the same for all generators within a site, the site is counted more than once, based on the number of most predominant energy sources for generators at a site. In general, this table translates the number of generators by energy source into the number of sites represented by the generators for an energy source. Therefore, the count for Total (All Sectors) above is the sum of the counts for each sector by energy source and does not necessarily represent unique sites. In addition, changes to predominant energy sources and status codes from year to year may result in changes to previously-posted data.

Capacity by energy source is based on the capacity associated with the energy source reported as the most predominant (primary) one, where more than one energy source is associated with a generator.

In 2011, EIA corrected the NAICS codes of several plants which resulted in a net capacity shift from the electric utility sector to the commercial sector.

Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 4.2.A. Existing Net Summer Capacity by Energy Source and Producer Type, 2003 through 2013 (Megawatts)

| Year | Coal | Petroleum | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional | Other Renewable Sources | Hydroelectric Pumped Storage | Other Energy Sources | Total |
|--|---------|-----------|-------------|-------------|---------|----------------------------|-------------------------|------------------------------|----------------------|-----------|
| Total (All Sectors) | | | | | | | | | | |
| 2003 | 313,019 | 60,730 | 355,442 | 1,994 | 99,209 | 78,694 | 18,153 | 20,522 | 684 | 948,446 |
| 2004 | 313,020 | 59,119 | 371,011 | 2,296 | 99,628 | 77,641 | 18,717 | 20,764 | 746 | 962,942 |
| 2005 | 313,380 | 58,548 | 383,061 | 2,063 | 99,988 | 77,541 | 21,205 | 21,347 | 887 | 978,020 |
| 2006 | 312,956 | 58,097 | 388,294 | 2,256 | 100,334 | 77,821 | 24,113 | 21,461 | 882 | 986,215 |
| 2007 | 312,738 | 56,068 | 392,876 | 2,313 | 100,266 | 77,885 | 30,069 | 21,886 | 788 | 994,888 |
| 2008 | 313,322 | 57,445 | 397,460 | 1,995 | 100,755 | 77,930 | 38,466 | 21,858 | 942 | 1,010,171 |
| 2009 | 314,294 | 56,781 | 401,272 | 1,932 | 101,004 | 78,518 | 48,552 | 22,160 | 888 | 1,025,400 |
| 2010 | 316,800 | 55,647 | 407,028 | 2,700 | 101,167 | 78,825 | 53,811 | 22,199 | 884 | 1,039,062 |
| 2011 | 317,640 | 51,482 | 415,191 | 1,934 | 101,419 | 78,652 | 61,221 | 22,293 | 1,420 | 1,051,251 |
| 2012 | 309,680 | 47,167 | 422,364 | 1,946 | 101,885 | 78,738 | 77,155 | 22,368 | 1,729 | 1,063,033 |
| 2013 | 303,306 | 43,523 | 425,390 | 2,108 | 99,240 | 79,200 | 82,600 | 22,389 | 2,307 | 1,060,064 |
| Electric Utilities | | | | | | | | | | |
| 2003 | 236,473 | 32,570 | 125,612 | 61 | 60,964 | 72,827 | 925 | 17,803 | 13 | 547,249 |
| 2004 | 235,976 | 31,415 | 131,734 | 58 | 60,651 | 71,696 | 960 | 18,048 | 13 | 550,550 |
| 2005 | 229,705 | 30,867 | 147,752 | -- | 56,564 | 71,568 | 1,545 | 18,195 | 39 | 556,235 |
| 2006 | 230,644 | 30,419 | 157,742 | 104 | 56,143 | 71,840 | 2,291 | 18,301 | 39 | 567,523 |
| 2007 | 231,289 | 29,115 | 162,756 | 104 | 54,211 | 72,186 | 2,806 | 18,693 | 39 | 571,200 |
| 2008 | 231,857 | 30,657 | 173,106 | -- | 54,376 | 72,142 | 4,066 | 18,664 | 39 | 584,908 |
| 2009 | 234,397 | 30,174 | 180,571 | -- | 54,355 | 72,690 | 5,614 | 18,930 | 39 | 596,769 |
| 2010 | 235,707 | 28,972 | 184,231 | 539 | 54,369 | 72,974 | 6,316 | 18,969 | -- | 602,076 |
| 2011 | 236,392 | 27,670 | 193,631 | -- | 54,352 | 72,182 | 7,811 | 19,062 | 5 | 611,105 |
| 2012 | 232,079 | 26,732 | 206,774 | -- | 54,717 | 72,505 | 9,824 | 19,094 | 61 | 621,785 |
| 2013 | 228,478 | 24,649 | 208,486 | 12 | 52,399 | 72,755 | 10,118 | 19,115 | 787 | 616,799 |
| Independent Power Producers, Non-Combined Heat and Power Plants | | | | | | | | | | |
| 2003 | 66,538 | 26,028 | 178,624 | 6 | 38,244 | 5,058 | 11,786 | 2,719 | 46 | 329,049 |
| 2004 | 67,242 | 25,918 | 190,855 | 8 | 38,978 | 5,274 | 12,070 | 2,717 | 46 | 343,106 |
| 2005 | 73,734 | 26,041 | 188,043 | 12 | 43,424 | 5,284 | 13,864 | 3,152 | 46 | 353,601 |
| 2006 | 72,730 | 25,384 | 184,196 | 20 | 44,190 | 5,263 | 15,865 | 3,160 | 46 | 350,854 |
| 2007 | 71,943 | 24,818 | 184,888 | 8 | 46,055 | 5,346 | 21,002 | 3,193 | 26 | 357,278 |
| 2008 | 71,864 | 24,823 | 179,169 | -- | 46,379 | 5,433 | 28,139 | 3,193 | 46 | 359,044 |
| 2009 | 70,123 | 24,657 | 176,035 | 8 | 46,649 | 5,470 | 36,556 | 3,230 | 46 | 362,773 |
| 2010 | 71,214 | 24,867 | 178,190 | 8 | 46,798 | 5,489 | 41,014 | 3,230 | 77 | 370,887 |
| 2011 | 72,120 | 22,399 | 176,517 | -- | 47,067 | 5,539 | 46,698 | 3,230 | 169 | 373,739 |
| 2012 | 69,068 | 18,644 | 170,654 | -- | 47,168 | 5,569 | 60,117 | 3,274 | 470 | 374,964 |
| 2013 | 67,154 | 17,445 | 171,654 | 47 | 46,841 | 5,762 | 64,891 | 3,274 | 231 | 377,298 |
| Independent Power Producers, Combined Heat and Power Plants | | | | | | | | | | |
| 2003 | 5,534 | 1,051 | 34,895 | 185 | -- | 1 | 665 | -- | -- | 42,332 |
| 2004 | 5,609 | 677 | 32,600 | 289 | -- | 1 | 555 | -- | -- | 39,731 |
| 2005 | 5,560 | 530 | 31,740 | 289 | -- | 1 | 614 | -- | -- | 38,735 |
| 2006 | 5,837 | 970 | 30,031 | 325 | -- | 1 | 628 | -- | -- | 37,793 |
| 2007 | 5,885 | 907 | 29,468 | 339 | -- | -- | 656 | -- | -- | 37,254 |
| 2008 | 5,927 | 900 | 29,575 | 206 | -- | -- | 701 | -- | -- | 37,309 |
| 2009 | 5,940 | 897 | 28,875 | 206 | -- | -- | 740 | -- | -- | 36,658 |
| 2010 | 5,451 | 766 | 29,006 | 182 | -- | -- | 846 | -- | -- | 36,250 |
| 2011 | 5,146 | 317 | 29,373 | 30 | -- | -- | 793 | -- | 53 | 35,712 |
| 2012 | 4,756 | 317 | 29,129 | 83 | -- | -- | 981 | -- | -- | 35,266 |
| 2013 | 4,314 | 322 | 29,081 | 83 | -- | 4 | 945 | -- | 122 | 34,871 |
| Commercial Sector | | | | | | | | | | |
| 2003 | 347 | 343 | 994 | -- | -- | 22 | 371 | -- | -- | 2,077 |
| 2004 | 368 | 321 | 1,069 | 5 | -- | 22 | 404 | -- | -- | 2,188 |
| 2005 | 397 | 333 | 1,024 | 5 | -- | 25 | 435 | -- | -- | 2,219 |
| 2006 | 428 | 341 | 1,040 | 5 | -- | 25 | 433 | -- | -- | 2,272 |
| 2007 | 428 | 348 | 1,064 | 5 | -- | 22 | 443 | -- | 3 | 2,312 |
| 2008 | 428 | 352 | 1,059 | 5 | -- | 22 | 444 | -- | 3 | 2,312 |
| 2009 | 424 | 348 | 1,105 | 5 | -- | 22 | 480 | -- | 3 | 2,386 |
| 2010 | 418 | 368 | 1,155 | 5 | -- | 22 | 520 | -- | 3 | 2,490 |
| 2011 | 436 | 406 | 1,283 | -- | -- | 234 | 694 | -- | 4 | 3,056 |
| 2012 | 436 | 443 | 1,545 | -- | -- | 18 | 777 | -- | 4 | 3,223 |
| 2013 | 342 | 456 | 1,779 | -- | -- | 18 | 948 | -- | 9 | 3,551 |
| Industrial Sector | | | | | | | | | | |
| 2003 | 4,127 | 738 | 15,316 | 1,742 | -- | 786 | 4,406 | -- | 625 | 27,740 |
| 2004 | 3,825 | 789 | 14,753 | 1,937 | -- | 648 | 4,728 | -- | 687 | 27,367 |
| 2005 | 3,984 | 777 | 14,501 | 1,757 | -- | 662 | 4,747 | -- | 802 | 27,230 |
| 2006 | 3,317 | 983 | 15,285 | 1,802 | -- | 693 | 4,896 | -- | 797 | 27,773 |
| 2007 | 3,194 | 880 | 14,699 | 1,858 | -- | 331 | 5,163 | -- | 720 | 26,844 |
| 2008 | 3,246 | 713 | 14,551 | 1,784 | -- | 334 | 5,116 | -- | 854 | 26,599 |
| 2009 | 3,412 | 704 | 14,686 | 1,714 | -- | 337 | 5,162 | -- | 800 | 26,815 |
| 2010 | 4,010 | 674 | 14,447 | 1,967 | -- | 341 | 5,116 | -- | 804 | 27,359 |
| 2011 | 3,547 | 690 | 14,389 | 1,904 | -- | 697 | 5,225 | -- | 1,188 | 27,639 |
| 2012 | 3,342 | 1,032 | 14,263 | 1,863 | -- | 646 | 5,457 | -- | 1,194 | 27,795 |
| 2013 | 3,019 | 652 | 14,390 | 1,966 | -- | 661 | 5,699 | -- | 1,158 | 27,544 |

Notes: Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; coal synfuel and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011, coal-derived synthesis gas was included in Other Gases. Petroleum includes distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, petroleum coke (converted to liquid petroleum, see Technical Notes for conversion methodology), waste oil, and beginning in 2011, synthetic gas and propane. Prior to 2011, synthetic gas and propane were included in Other Gases. Other Gases also includes blast furnace gas. Prior to 2011, waste heat was included in Natural Gas. Hydroelectric Conventional capacity includes conventional hydroelectric power excluding pumped storage facilities. Other Renewable Sources include wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind. Other Energy Sources include batteries, hydrogen, purchased steam, sulfur, tire-derived fuels and other miscellaneous energy sources. In 2011, EIA corrected the NAICS codes of several plants which resulted in a net capacity shift from the electric utility sector to the commercial sector. Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 4.2.B. Existing Net Summer Capacity of Other Renewable Sources by Producer Type, 2003 through 2013 (Megawatts) (Page 1)

| Year | Wind | Solar Thermal and Photovoltaic | Wood and Wood-Derived Fuels | Geothermal | Other Biomass | Total (Other Renewable Sources) |
|--|--------|--------------------------------|-----------------------------|------------|---------------|---------------------------------|
| Total (All Sectors) | | | | | | |
| 2003 | 5,995 | 397 | 5,871 | 2,133 | 3,758 | 18,153 |
| 2004 | 6,456 | 398 | 6,182 | 2,152 | 3,529 | 18,717 |
| 2005 | 8,706 | 411 | 6,193 | 2,285 | 3,609 | 21,205 |
| 2006 | 11,329 | 411 | 6,372 | 2,274 | 3,727 | 24,113 |
| 2007 | 16,515 | 502 | 6,704 | 2,214 | 4,134 | 30,069 |
| 2008 | 24,651 | 536 | 6,864 | 2,229 | 4,186 | 38,466 |
| 2009 | 34,296 | 619 | 6,939 | 2,382 | 4,317 | 48,552 |
| 2010 | 39,135 | 866 | 7,037 | 2,405 | 4,369 | 53,811 |
| 2011 | 45,676 | 1,524 | 7,077 | 2,409 | 4,536 | 61,221 |
| 2012 | 59,075 | 3,170 | 7,508 | 2,592 | 4,811 | 77,155 |
| 2013 | 59,973 | 6,623 | 8,354 | 2,607 | 5,043 | 82,600 |
| Electric Utilities | | | | | | |
| 2003 | 140 | 9 | 268 | 162 | 346 | 925 |
| 2004 | 326 | 10 | 313 | 152 | 160 | 960 |
| 2005 | 765 | 11 | 391 | 242 | 136 | 1,545 |
| 2006 | 1,441 | 11 | 428 | 240 | 172 | 2,291 |
| 2007 | 1,928 | 12 | 418 | 158 | 290 | 2,806 |
| 2008 | 3,190 | 14 | 427 | 159 | 276 | 4,066 |
| 2009 | 4,655 | 42 | 431 | 159 | 327 | 5,614 |
| 2010 | 5,338 | 79 | 414 | 159 | 325 | 6,316 |
| 2011 | 6,735 | 202 | 359 | 159 | 356 | 7,811 |
| 2012 | 8,489 | 332 | 364 | 162 | 477 | 9,824 |
| 2013 | 8,425 | 488 | 564 | 164 | 477 | 10,118 |
| Independent Power Producers, Non-Combined Heat and Power Plants | | | | | | |
| 2003 | 5,855 | 388 | 1,121 | 1,972 | 2,450 | 11,786 |
| 2004 | 6,130 | 388 | 1,138 | 2,000 | 2,414 | 12,070 |
| 2005 | 7,941 | 400 | 1,033 | 2,044 | 2,447 | 13,864 |
| 2006 | 9,888 | 400 | 1,037 | 2,034 | 2,505 | 15,865 |
| 2007 | 14,587 | 489 | 1,066 | 2,056 | 2,803 | 21,002 |
| 2008 | 21,461 | 521 | 1,196 | 2,070 | 2,891 | 28,139 |
| 2009 | 29,640 | 575 | 1,220 | 2,223 | 2,898 | 36,556 |
| 2010 | 33,784 | 780 | 1,275 | 2,246 | 2,930 | 41,014 |
| 2011 | 38,912 | 1,263 | 1,313 | 2,250 | 2,961 | 46,698 |
| 2012 | 50,548 | 2,731 | 1,399 | 2,384 | 3,056 | 60,117 |
| 2013 | 51,498 | 5,934 | 1,845 | 2,401 | 3,212 | 64,891 |

Notes: Wood and wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor. Other Biomass includes municipal solid waste, landfill gas, sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

* = Value is less than half of the smallest unit of measure.

Capacity by energy source is based on the capacity associated with the energy source reported as the most predominant (primary) one, where more than one energy source is associated with a generator.

Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 4.2.B. Existing Net Summer Capacity of Other Renewable Sources by Producer Type, 2003 through 2013 (Megawatts) (Page 2)

| Year | Wind | Solar Thermal and Photovoltaic | Wood and Wood-Derived Fuels | Geothermal | Other Biomass | Total (Other Renewable Sources) |
|--|------|--------------------------------|-----------------------------|------------|---------------|---------------------------------|
| Independent Power Producers, Combined Heat and Power Plants | | | | | | |
| 2003 | -- | -- | 204 | -- | 461 | 665 |
| 2004 | -- | -- | 179 | -- | 375 | 555 |
| 2005 | -- | -- | 218 | -- | 395 | 614 |
| 2006 | -- | -- | 212 | -- | 416 | 628 |
| 2007 | -- | -- | 210 | -- | 446 | 656 |
| 2008 | -- | -- | 223 | -- | 478 | 701 |
| 2009 | -- | -- | 237 | -- | 503 | 740 |
| 2010 | -- | -- | 393 | -- | 453 | 846 |
| 2011 | -- | -- | 356 | -- | 437 | 793 |
| 2012 | -- | -- | 490 | 46 | 446 | 981 |
| 2013 | -- | -- | 469 | 42 | 434 | 945 |
| Commercial Sector | | | | | | |
| 2003 | -- | -- | 7 | -- | 364 | 371 |
| 2004 | -- | -- | 7 | -- | 397 | 404 |
| 2005 | -- | -- | 7 | -- | 428 | 435 |
| 2006 | -- | -- | 7 | -- | 426 | 433 |
| 2007 | -- | -- | 8 | -- | 435 | 443 |
| 2008 | -- | -- | 8 | -- | 436 | 444 |
| 2009 | 1 | * | 8 | -- | 471 | 480 |
| 2010 | 11 | 6 | 8 | -- | 496 | 520 |
| 2011 | 25 | 54 | 8 | -- | 608 | 694 |
| 2012 | 30 | 100 | 8 | -- | 640 | 777 |
| 2013 | 33 | 193 | 8 | -- | 713 | 948 |
| Industrial Sector | | | | | | |
| 2003 | -- | -- | 4,271 | -- | 136 | 4,406 |
| 2004 | -- | -- | 4,545 | -- | 183 | 4,728 |
| 2005 | -- | -- | 4,545 | -- | 202 | 4,747 |
| 2006 | -- | -- | 4,688 | -- | 208 | 4,896 |
| 2007 | -- | 1 | 5,002 | -- | 160 | 5,163 |
| 2008 | -- | 1 | 5,010 | -- | 105 | 5,116 |
| 2009 | -- | 1 | 5,043 | -- | 118 | 5,162 |
| 2010 | 2 | 1 | 4,948 | -- | 165 | 5,116 |
| 2011 | 4 | 4 | 5,041 | -- | 175 | 5,225 |
| 2012 | 9 | 7 | 5,247 | -- | 193 | 5,457 |
| 2013 | 18 | 8 | 5,467 | -- | 206 | 5,699 |

Notes: Wood and wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor. Other Biomass includes municipal solid waste, landfill gas, sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

* = Value is less than half of the smallest unit of measure.

Capacity by energy source is based on the capacity associated with the energy source reported as the most predominant (primary) one, where more than one energy source is associated with a generator.

Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 4.3. Existing Capacity by Energy Source, 2013 (Megawatts)

| Energy Source | Number of Generators | Generator Nameplate Capacity | Net Summer Capacity | Net Winter Capacity |
|--------------------------------|----------------------|------------------------------|---------------------|---------------------|
| Coal | 1,212 | 329,815 | 303,306 | 305,824 |
| Petroleum | 3,601 | 49,794 | 43,523 | 47,412 |
| Natural Gas | 5,700 | 488,169 | 425,390 | 458,175 |
| Other Gases | 99 | 2,452 | 2,108 | 2,100 |
| Nuclear | 100 | 104,424 | 99,240 | 100,980 |
| Hydroelectric Conventional | 4,002 | 78,581 | 79,200 | 78,677 |
| Wind | 977 | 60,712 | 59,973 | 60,068 |
| Solar Thermal and Photovoltaic | 874 | 6,674 | 6,623 | 6,492 |
| Wood and Wood-Derived Fuels | 369 | 9,477 | 8,354 | 8,420 |
| Geothermal | 193 | 3,765 | 2,607 | 2,805 |
| Other Biomass | 1,850 | 5,832 | 5,043 | 5,118 |
| Hydroelectric Pumped Storage | 156 | 21,602 | 22,389 | 22,354 |
| Other Energy Sources | 110 | 2,728 | 2,307 | 2,347 |
| Total | 19,243 | 1,164,022 | 1,060,064 | 1,100,772 |

Notes: Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; coal synfuel and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011, coal-derived synthesis gas was included in Other Gases.

Petroleum includes distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, petroleum coke (converted to liquid petroleum, see Technical Notes for conversion methodology), waste oil, and beginning in 2011, synthetic gas and propane. Prior to 2011, synthetic gas and propane were included in Other Gases.

Other Gases includes blast furnace gas. Prior to 2011, waste heat was included in Natural Gas.

Hydroelectric Conventional capacity includes conventional hydroelectric power excluding pumped storage facilities.

Wood and wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

Other Biomass include municipal solid waste, landfill gas, sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

Hydroelectric Conventional capacity includes conventional hydroelectric power excluding pumped storage facilities.

Other Energy Sources include batteries, hydrogen, purchased steam, sulfur, tire-derived fuels and other miscellaneous energy sources.

Capacity by energy source is based on the capacity associated with the energy source reported as the most predominant (primary) one, where more than one energy source is associated with a generator.

In 2011, EIA corrected the NAICS codes of several plants which resulted in a net capacity shift from the electric utility sector to the commercial sector.

Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 4.4. Existing Capacity by Producer Type, 2013 (Megawatts)

| Producer Type | Number of Generators | Generator Nameplate Capacity | Net Summer Capacity | Net Winter Capacity |
|---|-----------------------------|-------------------------------------|----------------------------|----------------------------|
| Electric Power Sector | | | | |
| Electric Utilities | 9,463 | 674,828 | 616,799 | 639,350 |
| Independent Power Producers, Non-Combined Heat and Power Plants | 6,502 | 413,993 | 377,298 | 391,014 |
| Independent Power Producers, Combined Heat and Power Plants | 588 | 39,729 | 34,871 | 37,567 |
| Total | 16,553 | 1,128,549 | 1,028,969 | 1,067,931 |
| Commercial and Industrial Sectors | | | | |
| Commercial Sector | 1,042 | 3,947 | 3,551 | 3,682 |
| Industrial Sector | 1,648 | 31,526 | 27,544 | 29,160 |
| Total | 2,690 | 35,473 | 31,095 | 32,841 |
| All Sectors | | | | |
| Total | 19,243 | 1,164,022 | 1,060,064 | 1,100,772 |

Notes:

See Glossary reference for definitions.

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

In the case of some wind, solar and wave energy sites, the capacity for multiple generators is reported in a single generator record and is presented as a single generator in the generator count.

Capacity by energy source is based on the capacity associated with the energy source reported as the most predominant (primary) one, where more than one energy source is associated with a generator.

Table 4.5. Planned Generating Capacity Changes, by Energy Source, 2014-2018 (Page 1)

| Energy Source | Generator Additions | | Generator Retirements | | Net Capacity Additions | |
|--------------------------------|----------------------|---------------------|-----------------------|---------------------|------------------------|---------------------|
| | Number of Generators | Net Summer Capacity | Number of Generators | Net Summer Capacity | Number of Generators | Net Summer Capacity |
| 2014 | | | | | | |
| U.S. Total | 703 | 17,761 | 149 | 7,157 | 554 | 10,604 |
| Coal | 1 | 62 | 35 | 3,005 | -34 | -2,943 |
| Petroleum | 29 | 54 | 32 | 801 | -3 | -747 |
| Natural Gas | 76 | 8,009 | 52 | 2,326 | 24 | 5,683 |
| Other Gases | -- | -- | 4 | 40 | -4 | -40 |
| Nuclear | -- | -- | 1 | 619 | -1 | -619 |
| Hydroelectric Conventional | 47 | 347 | 3 | 128 | 44 | 220 |
| Wind | 56 | 4,969 | 2 | 53 | 54 | 4,916 |
| Solar Thermal and Photovoltaic | 432 | 4,069 | 2 | 4 | 430 | 4,064 |
| Wood and Wood-Derived Fuels | 3 | 111 | 5 | 129 | -2 | -19 |
| Geothermal | 2 | 11 | -- | -- | 2 | 11 |
| Other Biomass | 55 | 111 | 12 | 23 | 43 | 88 |
| Hydroelectric Pumped Storage | -- | -- | -- | -- | -- | -- |
| Other Energy Sources | 2 | 18 | 1 | 27 | 1 | -9 |
| 2015 | | | | | | |
| U.S. Total | 362 | 23,567 | 210 | 18,102 | 152 | 5,466 |
| Coal | -- | -- | 100 | 15,022 | -100 | -15,022 |
| Petroleum | 1 | 1 | 24 | 820 | -23 | -819 |
| Natural Gas | 99 | 8,333 | 59 | 2,033 | 40 | 6,300 |
| Other Gases | -- | -- | -- | -- | -- | -- |
| Nuclear | 1 | 1,122 | -- | -- | 1 | 1,122 |
| Hydroelectric Conventional | 12 | 293 | 15 | 160 | -3 | 133 |
| Wind | 104 | 11,038 | 2 | 25 | 102 | 11,012 |
| Solar Thermal and Photovoltaic | 125 | 2,523 | -- | -- | 125 | 2,523 |
| Wood and Wood-Derived Fuels | 2 | 65 | 5 | 39 | -3 | 27 |
| Geothermal | 1 | 49 | -- | -- | 1 | 49 |
| Other Biomass | 16 | 143 | 5 | 3 | 11 | 141 |
| Hydroelectric Pumped Storage | -- | -- | -- | -- | -- | -- |
| Other Energy Sources | 1 | 1 | -- | -- | 1 | 1 |
| 2016 | | | | | | |
| U.S. Total | 184 | 18,422 | 70 | 4,989 | 114 | 13,433 |
| Coal | 3 | 276 | 26 | 3,774 | -23 | -3,498 |
| Petroleum | 1 | 1 | 14 | 124 | -13 | -123 |
| Natural Gas | 94 | 9,618 | 26 | 974 | 68 | 8,643 |
| Other Gases | -- | -- | -- | -- | -- | -- |
| Nuclear | -- | -- | -- | -- | -- | -- |
| Hydroelectric Conventional | 6 | 148 | 1 | 104 | 5 | 44 |
| Wind | 29 | 4,299 | -- | -- | 29 | 4,299 |
| Solar Thermal and Photovoltaic | 42 | 3,835 | -- | -- | 42 | 3,835 |
| Wood and Wood-Derived Fuels | 2 | 104 | 1 | 11 | 1 | 94 |
| Geothermal | 1 | 25 | -- | -- | 1 | 25 |
| Other Biomass | 3 | 21 | 2 | 2 | 1 | 19 |
| Hydroelectric Pumped Storage | -- | -- | -- | -- | -- | -- |
| Other Energy Sources | 3 | 95 | -- | -- | 3 | 95 |

Notes: These data reflect plans as of December 31, 2013

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, coal synfuel, refined coal, and coal-derived synthesis gas.

Petroleum includes distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, petroleum coke (converted to liquid petroleum, see Technical Notes for conversion methodology), waste oil, synthetic gas, and propane.

Other Gases also includes blast furnace gas.

Hydroelectric Conventional capacity includes conventional hydroelectric power excluding pumped storage facilities.

Wood and wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

Other Biomass include municipal solid waste, landfill gas, sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

Hydroelectric Conventional capacity includes conventional hydroelectric power excluding pumped storage facilities.

Other Energy Sources include batteries, hydrogen, purchased steam, sulfur, tire-derived fuels and other miscellaneous energy sources.

Capacity by energy source is based on the capacity associated with the energy source reported as the most predominant (primary) one, where more than one energy source is associated with a generator.

In the case of wind, solar and wave energy sites, the capacity for multiple generators is reported in a single generator record and is presented as a single generator in the generator count.

Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 4.5. Planned Generating Capacity Changes, by Energy Source, 2014-2018 (Page 2)

| Energy Source | Generator Additions | | Generator Retirements | | Net Capacity Additions | |
|--------------------------------|----------------------|---------------------|-----------------------|---------------------|------------------------|---------------------|
| | Number of Generators | Net Summer Capacity | Number of Generators | Net Summer Capacity | Number of Generators | Net Summer Capacity |
| 2017 | | | | | | |
| U.S. Total | 72 | 14,495 | 54 | 7,585 | 18 | 6,910 |
| Coal | 1 | 350 | 22 | 5,097 | -21 | -4,747 |
| Petroleum | -- | -- | 2 | 452 | -2 | -452 |
| Natural Gas | 42 | 10,024 | 16 | 1,751 | 26 | 8,273 |
| Other Gases | -- | -- | -- | -- | -- | -- |
| Nuclear | 2 | 2,200 | -- | -- | 2 | 2,200 |
| Hydroelectric Conventional | 6 | 163 | 2 | 208 | 4 | -45 |
| Wind | 11 | 1,138 | 3 | 39 | 8 | 1,099 |
| Solar Thermal and Photovoltaic | 2 | 400 | -- | -- | 2 | 400 |
| Wood and Wood-Derived Fuels | -- | -- | -- | -- | -- | -- |
| Geothermal | 2 | 90 | -- | -- | 2 | 90 |
| Other Biomass | 2 | 31 | 9 | 38 | -7 | -7 |
| Hydroelectric Pumped Storage | -- | -- | -- | -- | -- | -- |
| Other Energy Sources | 4 | 100 | -- | -- | 4 | 100 |
| 2018 | | | | | | |
| U.S. Total | 52 | 8,689 | 20 | 2,954 | 32 | 5,735 |
| Coal | 1 | 17 | 10 | 2,618 | -9 | -2,601 |
| Petroleum | 2 | 3 | 7 | 194 | -5 | -191 |
| Natural Gas | 36 | 5,095 | 2 | 125 | 34 | 4,970 |
| Other Gases | 1 | 3 | -- | -- | 1 | 3 |
| Nuclear | 2 | 2,200 | -- | -- | 2 | 2,200 |
| Hydroelectric Conventional | 3 | 177 | -- | -- | 3 | 177 |
| Wind | 2 | 965 | 1 | 17 | 1 | 948 |
| Solar Thermal and Photovoltaic | -- | -- | -- | -- | -- | -- |
| Wood and Wood-Derived Fuels | -- | -- | -- | -- | -- | -- |
| Geothermal | 3 | 180 | -- | -- | 3 | 180 |
| Other Biomass | 2 | 49 | -- | -- | 2 | 49 |
| Hydroelectric Pumped Storage | -- | -- | -- | -- | -- | -- |
| Other Energy Sources | -- | -- | -- | -- | -- | -- |
| 2014-2018 | | | | | | |
| U.S. Total | 1,373 | 82,933 | 503 | 40,786 | 870 | 42,147 |
| Coal | 6 | 705 | 193 | 29,517 | -187 | -28,811 |
| Petroleum | 33 | 59 | 79 | 2,391 | -46 | -2,332 |
| Natural Gas | 347 | 41,079 | 155 | 7,209 | 192 | 33,869 |
| Other Gases | 1 | 3 | 4 | 40 | -3 | -37 |
| Nuclear | 5 | 5,522 | 1 | 619 | 4 | 4,903 |
| Hydroelectric Conventional | 74 | 1,128 | 21 | 600 | 53 | 529 |
| Wind | 202 | 22,409 | 8 | 135 | 194 | 22,274 |
| Solar Thermal and Photovoltaic | 601 | 10,827 | 2 | 4 | 599 | 10,822 |
| Wood and Wood-Derived Fuels | 7 | 280 | 11 | 178 | -4 | 101 |
| Geothermal | 9 | 355 | -- | -- | 9 | 355 |
| Other Biomass | 78 | 354 | 28 | 66 | 50 | 289 |
| Hydroelectric Pumped Storage | -- | -- | -- | -- | -- | -- |
| Other Energy Sources | 10 | 214 | 1 | 27 | 9 | 186 |

Notes: These data reflect plans as of December 31, 2013

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, coal synfuel, refined coal, and coal-derived synthesis gas.

Petroleum includes distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, petroleum coke (converted to liquid petroleum, see Technical Notes for conversion methodology), waste oil, synthetic gas, and propane.

Other Gases also includes blast furnace gas.

Hydroelectric Conventional capacity includes conventional hydroelectric power excluding pumped storage facilities.

Wood and wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

Other Biomass include municipal solid waste, landfill gas, sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

Hydroelectric Conventional capacity includes conventional hydroelectric power excluding pumped storage facilities.

Other Energy Sources include batteries, hydrogen, purchased steam, sulfur, tire-derived fuels and other miscellaneous energy sources.

Capacity by energy source is based on the capacity associated with the energy source reported as the most predominant (primary) one, where more than one energy source is associated with a generator.

In the case of wind, solar and wave energy sites, the capacity for multiple generators is reported in a single generator record and is presented as a single generator in the generator count.

Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 4.6. Capacity Additions, Retirements and Changes by Energy Source, 2013 (Count, Megawatts)

| Energy Source | Generator Additions | | | | Generator Retirements | | | |
|--------------------------------|----------------------|------------------------------|---------------------|---------------------|-----------------------|------------------------------|---------------------|---------------------|
| | Number of Generators | Generator Nameplate Capacity | Net Summer Capacity | Net Winter Capacity | Number of Generators | Generator Nameplate Capacity | Net Summer Capacity | Net Winter Capacity |
| Coal | 4 | 1,813 | 1,508 | 1,569 | 61 | 6,964 | 6,291 | 6,492 |
| Petroleum | 27 | 71 | 62 | 66 | 130 | 2,027 | 1,871 | 1,920 |
| Natural Gas | 89 | 7,509 | 6,868 | 7,376 | 121 | 6,631 | 5,843 | 6,024 |
| Other Gases | 4 | 13 | 12 | 12 | -- | -- | -- | -- |
| Nuclear | -- | -- | -- | -- | 4 | 3,705 | 3,576 | 3,601 |
| Hydroelectric Conventional | 21 | 424 | 413 | 405 | 36 | 168 | 168 | 168 |
| Wind | 22 | 859 | 859 | 859 | 2 | 9 | 9 | 9 |
| Solar Thermal and Photovoltaic | 259 | 3,469 | 3,461 | 3,440 | 3 | 3 | 3 | 3 |
| Wood and Wood-Derived Fuels | 13 | 599 | 548 | 550 | 2 | 19 | 19 | 19 |
| Geothermal | 10 | 91 | 71 | 72 | 1 | 14 | 11 | 11 |
| Other Biomass | 93 | 235 | 205 | 210 | 37 | 44 | 39 | 38 |
| Hydroelectric Pumped Storage | -- | -- | -- | -- | -- | -- | -- | -- |
| Other Energy Sources | 7 | 49 | 49 | 49 | 3 | 24 | 24 | 24 |
| Total | 549 | 15,131 | 14,054 | 14,606 | 400 | 19,606 | 17,852 | 18,308 |

| Energy Source | Other Changes to Existing Capacity | | |
|--------------------------------|------------------------------------|---------------------|---------------------|
| | Generator Nameplate Capacity | Net Summer Capacity | Net Winter Capacity |
| Coal | -1,375 | -1,591 | -1,546 |
| Petroleum | -2,040 | -1,835 | -1,974 |
| Natural Gas | 1,333 | 2,000 | 1,609 |
| Other Gases | 186 | 150 | 155 |
| Nuclear | 190 | 931 | 399 |
| Hydroelectric Conventional | 84 | 218 | 225 |
| Wind | 232 | 48 | 135 |
| Solar Thermal and Photovoltaic | -8 | -6 | 2 |
| Wood and Wood-Derived Fuels | 378 | 317 | 319 |
| Geothermal | -36 | -45 | -37 |
| Other Biomass | 115 | 67 | 62 |
| Hydroelectric Pumped Storage | 744 | 21 | 83 |
| Other Energy Sources | 699 | 553 | 583 |
| Total | 502 | 829 | 15 |

Notes: Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal, coal synfuel, refined coal, and coal-derived synthesis gas.

Petroleum includes distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, petroleum coke (converted to liquid petroleum, see Technical Notes for conversion methodology), waste oil, synthetic gas, and propane.

Other Gases also includes blast furnace gas and other manufactured and waste gases derived from fossil fuels.

Hydroelectric Conventional capacity includes conventional hydroelectric power excluding pumped storage facilities.

Wood and wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

Other Biomass include municipal solid waste, landfill gas, sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

Other Energy Sources include batteries, hydrogen, purchased steam, sulfur, tire-derived fuels and other miscellaneous energy sources.

Capacity by energy source is based on the capacity associated with the energy source reported as the most predominant (primary) one, where more than one energy source is associated with a generator.

In the case of some wind, solar and wave energy sites, the capacity for multiple generators is reported in a single generator record and is presented as a single generator in the generator count.

Other Changes to Existing Capacity reflect uprates, derates, repowerings, and changes to previously reported generator capacity.

Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 4.7.A. Net Summer Capacity of Utility Scale Units by Technology and by State, 2013 and 2012 (Megawatts)

| Census Division and State | Renewable Sources | | Fossil Fuels | | Hydroelectric Pumped Storage | | Other Energy Storage | | Nuclear | | All Other Sources | | All Sources | |
|---------------------------|-------------------|-----------|--------------|-----------|------------------------------|-----------|----------------------|-----------|-----------|-----------|-------------------|-----------|-------------|-------------|
| | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 4,403.4 | 4,157.7 | 23,564.2 | 24,619.1 | 1,753.4 | 1,753.4 | 3.0 | 3.0 | 4,645.4 | 4,630.3 | 52.9 | 48.0 | 34,422.3 | 35,211.5 |
| Connecticut | 331.6 | 294.7 | 6,274.1 | 6,607.7 | 29.4 | 29.4 | 0.0 | 0.0 | 2,102.5 | 2,102.5 | 30.9 | 26.0 | 8,768.5 | 9,060.3 |
| Maine | 1,809.6 | 1,704.5 | 2,667.3 | 2,764.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 | 22.0 | 4,498.9 | 4,491.4 |
| Massachusetts | 746.5 | 761.5 | 10,526.8 | 11,155.2 | 1,724.0 | 1,724.0 | 3.0 | 3.0 | 677.3 | 677.3 | 0.0 | 0.0 | 13,677.6 | 14,321.0 |
| New Hampshire | 930.5 | 838.4 | 2,236.7 | 2,238.7 | 0.0 | 0.0 | 0.0 | 0.0 | 1,246.2 | 1,246.2 | 0.0 | 0.0 | 4,413.4 | 4,323.3 |
| Rhode Island | 49.5 | 27.9 | 1,759.8 | 1,752.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1,809.3 | 1,780.7 |
| Vermont | 535.7 | 530.7 | 99.5 | 99.8 | 0.0 | 0.0 | 0.0 | 0.0 | 619.4 | 604.3 | 0.0 | 0.0 | 1,254.6 | 1,234.8 |
| Middle Atlantic | 10,088.6 | 9,621.4 | 69,239.5 | 71,813.3 | 3,341.0 | 3,321.0 | 40.0 | 28.0 | 19,234.3 | 19,055.4 | 11.2 | 11.2 | 101,954.6 | 103,850.3 |
| New Jersey | 575.5 | 464.5 | 13,882.4 | 13,933.9 | 420.0 | 400.0 | 0.0 | 0.0 | 4,107.5 | 4,114.5 | 11.2 | 11.2 | 18,996.6 | 18,924.1 |
| New York | 6,649.2 | 6,436.4 | 26,428.0 | 26,392.2 | 1,400.0 | 1,400.0 | 20.0 | 28.0 | 5,421.0 | 5,263.3 | 0.0 | 0.0 | 39,918.2 | 39,519.9 |
| Pennsylvania | 2,863.9 | 2,720.5 | 28,929.1 | 31,487.2 | 1,521.0 | 1,521.0 | 20.0 | 0.0 | 9,705.8 | 9,677.6 | 0.0 | 0.0 | 43,039.8 | 45,406.3 |
| East North Central | 9,077.8 | 8,761.8 | 122,181.5 | 123,094.3 | 1,872.0 | 1,871.0 | 20.0 | 0.0 | 18,838.1 | 19,359.2 | 109.1 | 114.1 | 152,098.5 | 153,200.4 |
| Illinois | 3,718.2 | 3,715.1 | 29,654.6 | 29,884.7 | 0.0 | 0.0 | 0.0 | 0.0 | 11,577.5 | 11,541.0 | 0.0 | 5.0 | 44,950.3 | 45,145.8 |
| Indiana | 1,711.6 | 1,661.7 | 25,396.6 | 25,087.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 88.0 | 88.0 | 27,196.2 | 26,837.3 |
| Michigan | 1,849.5 | 1,571.1 | 22,477.6 | 22,953.5 | 1,872.0 | 1,871.0 | 0.0 | 0.0 | 3,929.1 | 3,936.2 | 0.0 | 0.0 | 30,128.2 | 30,331.8 |
| Ohio | 703.6 | 738.0 | 29,624.1 | 29,982.3 | 0.0 | 0.0 | 20.0 | 0.0 | 2,134.0 | 2,134.0 | 0.0 | 0.0 | 32,481.7 | 32,854.3 |
| Wisconsin | 1,094.9 | 1,075.9 | 15,028.6 | 15,166.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1,197.5 | 1,748.0 | 21.1 | 21.1 | 17,342.1 | 18,031.2 |
| West North Central | 18,191.6 | 17,735.7 | 62,092.9 | 62,162.0 | 657.0 | 657.0 | 1.0 | 0.0 | 5,888.0 | 5,805.0 | 24.5 | 23.7 | 86,855.0 | 86,383.4 |
| Iowa | 5,207.5 | 5,167.4 | 10,120.1 | 10,249.8 | 0.0 | 0.0 | 0.0 | 0.0 | 601.4 | 601.4 | 0.0 | 0.0 | 15,929.0 | 16,018.6 |
| Kansas | 2,990.9 | 2,733.2 | 10,077.3 | 10,185.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1,175.0 | 1,175.0 | 0.8 | 0.0 | 14,244.0 | 14,093.3 |
| Minnesota | 3,467.5 | 3,389.9 | 10,598.3 | 10,444.8 | 0.0 | 0.0 | 1.0 | 0.0 | 1,673.0 | 1,594.0 | 18.4 | 18.4 | 15,758.2 | 15,447.1 |
| Missouri | 1,039.1 | 1,038.1 | 18,910.6 | 19,118.6 | 657.0 | 657.0 | 0.0 | 0.0 | 1,194.0 | 1,190.0 | 0.0 | 0.0 | 21,800.7 | 22,003.7 |
| Nebraska | 819.1 | 741.6 | 6,384.9 | 6,286.9 | 0.0 | 0.0 | 0.0 | 0.0 | 1,244.6 | 1,244.6 | 0.0 | 0.0 | 8,448.6 | 8,273.1 |
| North Dakota | 2,279.0 | 2,277.0 | 4,281.4 | 4,208.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 5.3 | 6,565.7 | 6,490.4 |
| South Dakota | 2,388.5 | 2,388.5 | 1,720.3 | 1,668.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4,108.8 | 4,057.2 |
| South Atlantic | 12,360.5 | 11,516.0 | 160,969.0 | 162,937.3 | 7,905.2 | 7,905.2 | 32.0 | 32.0 | 24,562.6 | 25,020.0 | 930.0 | 406.0 | 206,759.3 | 207,816.5 |
| Delaware | 38.3 | 34.3 | 3,207.4 | 3,322.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3,245.7 | 3,356.5 |
| District of Columbia | 0.0 | 0.0 | 9.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 | 10.0 |
| Florida | 1,303.2 | 1,156.4 | 53,125.5 | 53,455.8 | 0.0 | 0.0 | 0.0 | 0.0 | 3,572.0 | 4,175.0 | 780.0 | 352.0 | 58,780.7 | 59,139.2 |
| Georgia | 2,813.6 | 2,699.9 | 29,473.5 | 29,865.0 | 1,862.2 | 1,862.2 | 0.0 | 0.0 | 4,061.0 | 4,061.0 | 0.0 | 0.0 | 38,210.3 | 38,488.1 |
| Maryland | 910.3 | 880.9 | 9,713.1 | 9,618.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1,716.0 | 1,716.0 | 0.0 | 0.0 | 12,339.4 | 12,215.3 |
| North Carolina | 2,892.1 | 2,614.2 | 21,939.5 | 22,638.5 | 86.0 | 86.0 | 0.0 | 0.0 | 5,076.1 | 4,998.0 | 54.0 | 54.0 | 30,047.7 | 30,390.7 |
| South Carolina | 1,769.5 | 1,725.1 | 11,974.9 | 12,133.7 | 2,716.0 | 2,716.0 | 0.0 | 0.0 | 6,556.2 | 6,508.0 | 0.0 | 0.0 | 23,016.6 | 23,082.8 |
| Virginia | 1,747.5 | 1,533.0 | 16,162.0 | 16,512.6 | 3,241.0 | 3,241.0 | 0.0 | 0.0 | 3,581.3 | 3,562.0 | 96.0 | 0.0 | 24,827.8 | 24,848.6 |
| West Virginia | 886.0 | 872.2 | 15,364.1 | 15,381.1 | 0.0 | 0.0 | 32.0 | 32.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16,282.1 | 16,285.3 |
| East South Central | 7,986.2 | 7,936.7 | 70,632.1 | 71,173.3 | 1,616.3 | 1,616.3 | 0.0 | 0.0 | 9,857.5 | 9,634.1 | 151.4 | 1.4 | 90,243.5 | 90,361.8 |
| Alabama | 3,948.6 | 3,948.9 | 23,361.1 | 23,551.1 | 0.0 | 0.0 | 0.0 | 0.0 | 5,043.4 | 5,043.4 | 0.0 | 0.0 | 32,353.1 | 32,547.4 |
| Kentucky | 901.4 | 896.7 | 20,102.2 | 20,192.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21,003.6 | 21,088.8 |
| Mississippi | 278.2 | 236.7 | 13,718.2 | 13,975.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1,413.4 | 1,190.0 | 151.4 | 1.4 | 15,561.2 | 15,403.6 |
| Tennessee | 2,858.0 | 2,854.4 | 13,450.6 | 13,450.6 | 1,616.3 | 1,616.3 | 0.0 | 0.0 | 3,400.7 | 3,400.7 | 0.0 | 0.0 | 21,325.6 | 21,322.0 |
| West South Central | 19,933.9 | 19,687.0 | 144,309.4 | 145,586.8 | 288.0 | 288.0 | 36.0 | 37.0 | 8,904.4 | 8,922.0 | 425.9 | 435.9 | 173,897.6 | 174,956.7 |
| Arkansas | 1,632.6 | 1,666.5 | 11,306.3 | 12,832.8 | 28.0 | 28.0 | 0.0 | 0.0 | 1,819.0 | 1,828.0 | 0.0 | 0.0 | 14,785.9 | 16,355.3 |
| Louisiana | 642.9 | 571.5 | 23,257.3 | 22,634.8 | 0.0 | 0.0 | 0.0 | 0.0 | 2,125.4 | 2,134.0 | 202.3 | 207.6 | 26,227.9 | 25,547.9 |
| Oklahoma | 4,076.3 | 4,064.5 | 18,963.9 | 19,160.6 | 260.0 | 260.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23,300.2 | 23,485.1 |
| Texas | 13,582.1 | 13,384.5 | 90,781.9 | 90,958.6 | 0.0 | 0.0 | 36.0 | 37.0 | 4,960.0 | 4,960.0 | 223.6 | 228.3 | 109,583.6 | 109,568.4 |
| Mountain | 19,834.8 | 19,102.2 | 63,937.0 | 64,689.6 | 778.8 | 778.8 | 2.6 | 1.8 | 3,937.0 | 3,937.0 | 111.4 | 111.4 | 88,601.6 | 88,620.8 |
| Arizona | 4,157.5 | 3,628.9 | 19,599.1 | 19,804.3 | 216.3 | 216.3 | 0.0 | 0.0 | 3,937.0 | 3,937.0 | 0.0 | 0.0 | 27,909.9 | 27,586.5 |
| Colorado | 3,122.8 | 3,055.1 | 11,074.8 | 11,319.9 | 562.5 | 562.5 | 0.0 | 0.0 | 0.0 | 0.0 | 9.3 | 9.3 | 14,769.4 | 14,946.8 |
| Idaho | 3,771.5 | 3,762.9 | 1,137.4 | 1,133.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.8 | 14.8 | 4,923.7 | 4,910.8 |
| Montana | 3,373.5 | 3,359.4 | 2,911.7 | 2,913.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44.0 | 44.0 | 6,329.2 | 6,317.1 |
| Nevada | 1,967.5 | 1,916.0 | 8,684.6 | 8,559.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10,652.1 | 10,475.7 |
| New Mexico | 1,060.4 | 1,027.4 | 6,874.9 | 7,344.0 | 0.0 | 0.0 | 2.6 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 7,937.9 | 8,373.2 |
| Utah | 666.0 | 638.1 | 7,000.3 | 6,960.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.8 | 31.8 | 7,698.1 | 7,630.6 |
| Wyoming | 1,715.6 | 1,714.4 | 6,654.2 | 6,654.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.5 | 11.5 | 8,381.3 | 8,380.1 |
| Pacific Contiguous | 58,902.3 | 56,418.4 | 53,355.5 | 51,279.1 | 4,177.6 | 4,177.6 | 6.0 | 0.0 | 3,373.0 | 5,522.0 | 275.4 | 385.8 | 120,089.8 | 117,782.9 |
| California | 22,516.6 | 20,165.1 | 44,927.2 | 42,534.2 | 3,863.6 | 3,863.6 | 6.0 | 0.0 | 2,240.0 | 4,390.0 | 218.6 | 375.8 | 73,772.0 | 71,328.7 |
| Oregon | 12,026.1 | 11,949.0 | 3,635.4 | 3,595.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15,661.5 | 15,544.2 |
| Washington | 24,359.6 | 24,304.3 | 4,792.9 | 5,149.7 | 314.0 | 314.0 | 0.0 | 0.0 | 1,133.0 | 1,132.0 | 56.8 | 10.0 | 30,656.3 | 30,910.0 |
| Pacific Noncontiguous | 1,021.0 | 956.3 | 4,045.7 | 3,802.8 | 0.0 | 0.0 | 48.0 | 63.0 | 0.0 | 0.0 | 26.6 | 26.6 | 5,141.3 | 4,848.7 |
| Alaska | 482.6 | 453.9 | 1,874.4 | 1,637.6 | 0.0 | 0.0 | 27.0 | 27.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2,384.0 | 2,118.5 |
| Hawaii | 538.4 | 502.4 | 2,171.3 | 2,165.2 | 0.0 | 0.0 | 21.0 | 36.0 | 0.0 | 0.0 | 26.6 | 26.6 | 2,757.3 | 2,730.2 |
| U.S. Total | 161,800.1 | 155,893.2 | 774,326.8 | 781,157.6 | 22,389.3 | 22,368.3 | 188.6 | 164.8 | 99,240.3 | 101,885.0 | 2,118.4 | 1,564.1 | 1,060,063.5 | 1,063,033.0 |

Values are final.

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of capacity for some technologies such as solar photovoltaic generation. Concentrated Solar Power Energy Storage is included in 'Renewable sources'; it is not included in 'Other Energy Storage'

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 4.7.B. Net Summer Capacity of Utility Scale Units Using Primarily Renewable Energy Sources and by State, 2013 and 2012 (Megawatts)

| Census Division and State | Wind | | Solar Photovoltaic | | Solar Thermal | | Conventional Hydroelectric | | Biomass Sources | | Geothermal | | Total Renewable Sources | |
|---------------------------|-----------|-----------|--------------------|-----------|---------------|-----------|----------------------------|-----------|-----------------|-----------|------------|-----------|-------------------------|-----------|
| | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 797.5 | 784.1 | 154.8 | 49.2 | 0.0 | 0.0 | 1,952.6 | 1,956.9 | 1,498.5 | 1,367.5 | 0.0 | 0.0 | 4,403.4 | 4,157.7 |
| Connecticut | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 122.2 | 122.2 | 204.4 | 172.5 | 0.0 | 0.0 | 331.6 | 294.7 |
| Maine | 430.6 | 427.6 | 0.0 | 0.0 | 0.0 | 0.0 | 726.7 | 742.3 | 652.3 | 534.6 | 0.0 | 0.0 | 1,809.6 | 1,704.5 |
| Massachusetts | 72.7 | 63.8 | 130.7 | 41.2 | 0.0 | 0.0 | 263.0 | 261.1 | 280.1 | 395.4 | 0.0 | 0.0 | 746.5 | 761.5 |
| New Hampshire | 171.0 | 171.0 | 0.0 | 0.0 | 0.0 | 0.0 | 514.4 | 505.0 | 245.1 | 162.4 | 0.0 | 0.0 | 930.5 | 838.4 |
| Rhode Island | 3.0 | 1.5 | 6.9 | 0.0 | 0.0 | 0.0 | 2.7 | 2.7 | 36.9 | 23.7 | 0.0 | 0.0 | 49.5 | 27.9 |
| Vermont | 120.2 | 120.2 | 12.2 | 8.0 | 0.0 | 0.0 | 323.6 | 323.6 | 79.7 | 78.9 | 0.0 | 0.0 | 535.7 | 530.7 |
| Middle Atlantic | 3,082.2 | 2,987.8 | 424.9 | 304.6 | 0.0 | 0.0 | 5,227.8 | 5,076.7 | 1,353.7 | 1,252.3 | 0.0 | 0.0 | 10,088.6 | 9,621.4 |
| New Jersey | 7.5 | 7.5 | 337.9 | 236.1 | 0.0 | 0.0 | 3.3 | 3.3 | 226.8 | 217.6 | 0.0 | 0.0 | 575.5 | 464.5 |
| New York | 1,730.8 | 1,636.4 | 46.2 | 31.5 | 0.0 | 0.0 | 4,332.3 | 4,311.9 | 539.9 | 456.6 | 0.0 | 0.0 | 6,649.2 | 6,436.4 |
| Pennsylvania | 1,343.9 | 1,343.9 | 40.8 | 37.0 | 0.0 | 0.0 | 892.2 | 761.5 | 587.0 | 578.1 | 0.0 | 0.0 | 2,863.9 | 2,720.5 |
| East North Central | 6,897.8 | 6,765.9 | 113.0 | 60.8 | 0.0 | 0.0 | 912.3 | 817.0 | 1,154.7 | 1,118.1 | 0.0 | 0.0 | 9,077.8 | 8,761.8 |
| Illinois | 3,525.1 | 3,520.1 | 31.6 | 29.0 | 0.0 | 0.0 | 34.1 | 34.1 | 127.4 | 131.9 | 0.0 | 0.0 | 3,718.2 | 3,715.1 |
| Indiana | 1,539.7 | 1,539.7 | 49.3 | 3.5 | 0.0 | 0.0 | 60.4 | 59.5 | 62.2 | 59.0 | 0.0 | 0.0 | 1,711.6 | 1,661.7 |
| Michigan | 1,080.3 | 874.8 | 0.0 | 0.0 | 0.0 | 0.0 | 331.4 | 237.0 | 437.8 | 459.3 | 0.0 | 0.0 | 1,849.5 | 1,571.1 |
| Ohio | 424.1 | 461.7 | 32.1 | 28.3 | 0.0 | 0.0 | 101.9 | 101.6 | 145.5 | 146.4 | 0.0 | 0.0 | 703.6 | 738.0 |
| Wisconsin | 328.6 | 369.6 | 0.0 | 0.0 | 0.0 | 0.0 | 384.5 | 384.8 | 381.8 | 321.5 | 0.0 | 0.0 | 1,094.9 | 1,075.9 |
| West North Central | 14,398.2 | 14,030.0 | 1.7 | 0.0 | 0.0 | 0.0 | 3,292.2 | 3,282.1 | 499.5 | 423.6 | 0.0 | 0.0 | 18,191.6 | 17,735.7 |
| Iowa | 5,047.0 | 5,005.0 | 0.0 | 0.0 | 0.0 | 0.0 | 144.9 | 147.8 | 15.6 | 14.6 | 0.0 | 0.0 | 5,207.5 | 5,167.4 |
| Kansas | 2,968.9 | 2,719.1 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 7.0 | 15.0 | 7.1 | 0.0 | 0.0 | 2,990.9 | 2,733.2 |
| Minnesota | 2,843.7 | 2,842.3 | 1.7 | 0.0 | 0.0 | 0.0 | 184.2 | 175.7 | 437.9 | 371.9 | 0.0 | 0.0 | 3,467.5 | 3,389.9 |
| Missouri | 458.5 | 458.5 | 0.0 | 0.0 | 0.0 | 0.0 | 570.3 | 570.3 | 10.3 | 9.3 | 0.0 | 0.0 | 1,039.1 | 1,038.1 |
| Nebraska | 530.4 | 455.4 | 0.0 | 0.0 | 0.0 | 0.0 | 277.8 | 275.3 | 10.9 | 10.9 | 0.0 | 0.0 | 819.1 | 741.6 |
| North Dakota | 1,759.2 | 1,759.2 | 0.0 | 0.0 | 0.0 | 0.0 | 510.0 | 508.0 | 9.8 | 9.8 | 0.0 | 0.0 | 2,279.0 | 2,277.0 |
| South Dakota | 790.5 | 790.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1,598.0 | 1,598.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2,388.5 | 2,388.5 |
| South Atlantic | 705.3 | 705.3 | 546.7 | 234.9 | 0.0 | 0.0 | 7,193.2 | 7,145.5 | 3,915.3 | 3,430.3 | 0.0 | 0.0 | 12,360.5 | 11,516.0 |
| Delaware | 2.0 | 2.0 | 28.3 | 24.3 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 | 8.0 | 0.0 | 0.0 | 38.3 | 34.3 |
| District of Columbia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Florida | 0.0 | 0.0 | 66.4 | 65.2 | 0.0 | 0.0 | 54.5 | 54.5 | 1,182.3 | 1,036.7 | 0.0 | 0.0 | 1,303.2 | 1,156.4 |
| Georgia | 0.0 | 0.0 | 61.1 | 3.2 | 0.0 | 0.0 | 2,044.9 | 2,047.9 | 707.6 | 648.8 | 0.0 | 0.0 | 2,813.6 | 2,699.9 |
| Maryland | 120.0 | 120.0 | 55.2 | 27.6 | 0.0 | 0.0 | 590.0 | 590.0 | 145.1 | 143.3 | 0.0 | 0.0 | 910.3 | 880.9 |
| North Carolina | 0.0 | 0.0 | 333.2 | 114.6 | 0.0 | 0.0 | 1,997.0 | 1,964.2 | 561.9 | 535.4 | 0.0 | 0.0 | 2,892.1 | 2,614.2 |
| South Carolina | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 1,340.3 | 1,336.0 | 426.7 | 389.1 | 0.0 | 0.0 | 1,769.5 | 1,725.1 |
| Virginia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 866.0 | 866.2 | 881.5 | 666.8 | 0.0 | 0.0 | 1,747.5 | 1,533.0 |
| West Virginia | 583.3 | 583.3 | 0.0 | 0.0 | 0.0 | 0.0 | 300.5 | 286.7 | 2.2 | 2.2 | 0.0 | 0.0 | 886.0 | 872.2 |
| East South Central | 29.1 | 29.1 | 13.6 | 12.8 | 0.0 | 0.0 | 6,719.4 | 6,715.9 | 1,224.1 | 1,178.9 | 0.0 | 0.0 | 7,986.2 | 7,936.7 |
| Alabama | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3,272.2 | 3,272.2 | 676.4 | 676.7 | 0.0 | 0.0 | 3,948.6 | 3,948.9 |
| Kentucky | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 831.1 | 827.6 | 70.3 | 69.1 | 0.0 | 0.0 | 901.4 | 896.7 |
| Mississippi | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 278.2 | 236.7 | 0.0 | 0.0 | 278.2 | 236.7 |
| Tennessee | 29.1 | 29.1 | 13.6 | 12.8 | 0.0 | 0.0 | 2,616.1 | 2,616.1 | 199.2 | 196.4 | 0.0 | 0.0 | 2,858.0 | 2,854.4 |
| West South Central | 15,454.8 | 15,311.8 | 125.9 | 75.2 | 0.0 | 0.0 | 3,072.2 | 3,080.2 | 1,281.0 | 1,219.8 | 0.0 | 0.0 | 19,933.9 | 19,687.0 |
| Arkansas | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1,324.2 | 1,340.7 | 308.4 | 325.8 | 0.0 | 0.0 | 1,632.6 | 1,666.5 |
| Louisiana | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 192.0 | 192.0 | 450.9 | 379.5 | 0.0 | 0.0 | 642.9 | 571.5 |
| Oklahoma | 3,132.9 | 3,132.9 | 0.0 | 0.0 | 0.0 | 0.0 | 867.2 | 858.2 | 76.2 | 73.4 | 0.0 | 0.0 | 4,076.3 | 4,064.5 |
| Texas | 12,321.9 | 12,178.9 | 125.9 | 75.2 | 0.0 | 0.0 | 688.8 | 689.3 | 445.5 | 441.1 | 0.0 | 0.0 | 13,582.1 | 13,384.5 |
| Mountain | 6,775.7 | 6,758.1 | 1,472.5 | 1,167.8 | 363.9 | 69.5 | 10,551.0 | 10,507.8 | 184.8 | 159.9 | 486.9 | 439.1 | 19,834.8 | 19,102.2 |
| Arizona | 237.3 | 237.3 | 866.9 | 631.7 | 295.4 | 1.0 | 2,719.4 | 2,720.4 | 38.5 | 38.5 | 0.0 | 0.0 | 4,157.5 | 3,628.9 |
| Colorado | 2,302.9 | 2,271.1 | 120.2 | 115.4 | 0.0 | 0.0 | 672.3 | 655.6 | 27.4 | 13.0 | 0.0 | 0.0 | 3,122.8 | 3,055.1 |
| Idaho | 962.7 | 962.7 | 0.0 | 0.0 | 0.0 | 0.0 | 2,704.5 | 2,703.4 | 94.3 | 86.8 | 10.0 | 10.0 | 3,771.5 | 3,762.9 |
| Montana | 612.4 | 627.8 | 0.0 | 0.0 | 0.0 | 0.0 | 2,758.1 | 2,731.6 | 3.0 | 0.0 | 0.0 | 0.0 | 3,373.5 | 3,359.4 |
| Nevada | 150.0 | 150.0 | 292.1 | 258.8 | 68.5 | 68.5 | 1,051.4 | 1,051.4 | 3.2 | 3.2 | 402.3 | 384.1 | 1,967.5 | 1,916.0 |
| New Mexico | 777.5 | 777.5 | 192.0 | 160.6 | 0.0 | 0.0 | 82.9 | 82.9 | 6.4 | 6.4 | 1.6 | 0.0 | 1,060.4 | 1,027.4 |
| Utah | 324.4 | 324.4 | 1.3 | 1.3 | 0.0 | 0.0 | 255.3 | 255.4 | 12.0 | 12.0 | 73.0 | 45.0 | 666.0 | 638.1 |
| Wyoming | 1,408.5 | 1,407.3 | 0.0 | 0.0 | 0.0 | 0.0 | 307.1 | 307.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1,715.6 | 1,714.4 |
| Pacific Contiguous | 11,567.2 | 11,464.4 | 2,467.8 | 781.6 | 922.5 | 406.5 | 39,838.7 | 39,715.3 | 2,029.0 | 1,940.6 | 2,077.1 | 2,110.0 | 58,902.3 | 56,418.4 |
| California | 5,600.0 | 5,506.3 | 2,456.6 | 770.4 | 922.5 | 406.5 | 10,173.4 | 10,145.7 | 1,304.7 | 1,243.9 | 2,059.4 | 2,092.3 | 22,516.6 | 20,165.1 |
| Oregon | 3,160.9 | 3,151.9 | 10.7 | 10.7 | 0.0 | 0.0 | 8,515.7 | 8,454.7 | 321.1 | 314.0 | 17.7 | 17.7 | 12,026.1 | 11,949.0 |
| Washington | 2,806.3 | 2,806.2 | 0.5 | 0.5 | 0.0 | 0.0 | 21,149.6 | 21,114.9 | 403.2 | 382.7 | 0.0 | 0.0 | 24,359.6 | 24,304.3 |
| Pacific Noncontiguous | 265.6 | 238.3 | 15.2 | 7.2 | 0.0 | 0.0 | 440.6 | 440.6 | 256.6 | 227.2 | 43.0 | 43.0 | 1,021.0 | 956.3 |
| Alaska | 60.0 | 32.7 | 0.0 | 0.0 | 0.0 | 0.0 | 415.6 | 415.6 | 7.0 | 5.6 | 0.0 | 0.0 | 482.6 | 453.9 |
| Hawaii | 205.6 | 205.6 | 15.2 | 7.2 | 0.0 | 0.0 | 25.0 | 25.0 | 249.6 | 221.6 | 43.0 | 43.0 | 538.4 | 502.4 |
| U.S. Total | 59,973.4 | 59,074.8 | 5,336.1 | 2,694.1 | 1,286.4 | 476.0 | 79,200.0 | 78,738.0 | 13,397.2 | 12,318.2 | 2,607.0 | 2,592.1 | 161,800.1 | 155,893.2 |

Values are final.

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of existing or planned capacity for some technologies such as solar photovoltaic generation.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 4.7.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, 2013 and 2012 (Megawatts)

| Census Division and State | Natural Gas Fired Combined Cycle | | Natural Gas Fired Combustion Turbine | | Other Natural Gas | | Coal | | Petroleum Coke | | Petroleum Liquids | | Other Gases | | Total Fossil Fuels | |
|---------------------------|----------------------------------|-----------|--------------------------------------|-----------|-------------------|-----------|-----------|-----------|----------------|-----------|-------------------|-----------|-------------|-----------|--------------------|-----------|
| | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 11,720.9 | 12,190.5 | 1,111.3 | 1,090.0 | 884.9 | 876.4 | 2,382.7 | 2,546.1 | 0.0 | 0.0 | 7,464.4 | 7,916.1 | 0.0 | 0.0 | 23,564.2 | 24,619.1 |
| Connecticut | 2,504.6 | 2,513.4 | 482.2 | 458.1 | 75.9 | 61.0 | 383.4 | 389.1 | 0.0 | 0.0 | 2,828.0 | 3,186.1 | 0.0 | 0.0 | 6,274.1 | 6,607.7 |
| Maine | 1,250.0 | 1,250.0 | 297.2 | 306.0 | 119.0 | 119.0 | 85.0 | 85.0 | 0.0 | 0.0 | 916.1 | 1,004.9 | 0.0 | 0.0 | 2,667.3 | 2,764.9 |
| Massachusetts | 5,033.1 | 5,498.9 | 328.1 | 322.1 | 679.6 | 686.0 | 1,380.4 | 1,538.1 | 0.0 | 0.0 | 3,105.6 | 3,110.1 | 0.0 | 0.0 | 10,526.8 | 11,155.2 |
| New Hampshire | 1,201.0 | 1,203.0 | 3.8 | 3.8 | 0.0 | 0.0 | 533.9 | 533.9 | 0.0 | 0.0 | 498.0 | 498.0 | 0.0 | 0.0 | 2,236.7 | 2,238.7 |
| Rhode Island | 1,732.2 | 1,725.2 | 0.0 | 0.0 | 10.4 | 10.4 | 0.0 | 0.0 | 0.0 | 0.0 | 17.2 | 17.2 | 0.0 | 0.0 | 1,759.8 | 1,752.8 |
| Vermont | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 99.5 | 99.8 | 0.0 | 0.0 | 99.5 | 99.8 |
| Middle Atlantic | 22,426.7 | 22,470.6 | 8,760.8 | 8,708.5 | 10,148.3 | 9,616.3 | 19,095.8 | 21,966.2 | 11.6 | 11.6 | 8,695.9 | 8,939.7 | 100.4 | 100.4 | 69,239.5 | 71,813.3 |
| New Jersey | 5,852.0 | 5,871.3 | 4,062.8 | 4,099.2 | 670.4 | 642.9 | 1,988.8 | 2,006.6 | 11.6 | 11.6 | 1,296.8 | 1,302.3 | 0.0 | 0.0 | 13,882.4 | 13,933.9 |
| New York | 8,236.0 | 8,338.6 | 3,017.0 | 3,011.4 | 7,679.3 | 7,194.6 | 2,507.3 | 2,703.7 | 0.0 | 0.0 | 4,988.4 | 5,143.9 | 0.0 | 0.0 | 26,428.0 | 26,392.2 |
| Pennsylvania | 8,338.7 | 8,260.7 | 1,681.0 | 1,597.9 | 1,798.6 | 1,778.8 | 14,599.7 | 17,255.9 | 0.0 | 0.0 | 2,410.7 | 2,493.5 | 100.4 | 100.4 | 28,929.1 | 31,487.2 |
| East North Central | 16,267.1 | 16,834.9 | 25,701.7 | 25,669.0 | 3,626.7 | 3,419.7 | 72,138.7 | 72,502.6 | 570.1 | 570.1 | 2,935.9 | 3,191.9 | 941.3 | 906.1 | 122,181.5 | 123,094.3 |
| Illinois | 2,957.7 | 2,976.6 | 10,169.6 | 10,314.6 | 228.0 | 238.7 | 15,498.4 | 15,574.0 | 0.0 | 0.0 | 683.2 | 663.1 | 117.7 | 117.7 | 29,654.6 | 29,884.7 |
| Indiana | 2,471.2 | 2,451.9 | 3,119.6 | 3,189.6 | 8.7 | 4.0 | 18,648.2 | 18,140.4 | 274.0 | 274.0 | 268.4 | 456.4 | 606.5 | 571.3 | 25,396.6 | 25,087.6 |
| Michigan | 4,210.1 | 4,777.0 | 3,614.4 | 3,319.3 | 3,117.1 | 2,979.3 | 10,946.5 | 11,261.8 | 47.2 | 47.2 | 542.3 | 568.9 | 0.0 | 0.0 | 22,477.6 | 22,953.5 |
| Ohio | 3,965.2 | 3,960.3 | 5,426.7 | 5,443.1 | 133.4 | 57.4 | 18,894.8 | 19,267.5 | 142.0 | 142.0 | 844.9 | 894.9 | 217.1 | 217.1 | 29,624.1 | 29,982.3 |
| Wisconsin | 2,662.9 | 2,669.1 | 3,371.4 | 3,402.4 | 139.5 | 140.3 | 8,150.8 | 8,258.9 | 106.9 | 106.9 | 597.1 | 608.6 | 0.0 | 0.0 | 15,028.6 | 15,186.2 |
| West North Central | 5,730.6 | 5,714.1 | 11,334.4 | 11,201.8 | 3,170.7 | 3,257.3 | 37,701.1 | 37,843.8 | 32.0 | 32.0 | 4,115.7 | 4,104.6 | 8.4 | 8.4 | 62,092.9 | 62,162.0 |
| Iowa | 1,112.8 | 1,161.5 | 1,105.6 | 1,113.9 | 292.6 | 261.4 | 6,562.3 | 6,683.4 | 32.0 | 32.0 | 1,014.8 | 997.6 | 0.0 | 0.0 | 10,120.1 | 10,249.8 |
| Kansas | 0.0 | 0.0 | 2,350.7 | 2,377.8 | 1,996.2 | 2,043.0 | 5,188.1 | 5,223.0 | 0.0 | 0.0 | 542.3 | 541.3 | 0.0 | 0.0 | 10,077.3 | 10,185.1 |
| Minnesota | 2,158.2 | 2,107.2 | 2,580.4 | 2,558.4 | 231.2 | 278.7 | 4,822.3 | 4,696.5 | 0.0 | 0.0 | 806.2 | 804.0 | 0.0 | 0.0 | 10,598.3 | 10,444.8 |
| Missouri | 1,830.0 | 1,834.8 | 3,370.9 | 3,397.5 | 230.8 | 267.4 | 12,332.9 | 12,457.5 | 0.0 | 0.0 | 1,146.0 | 1,161.4 | 0.0 | 0.0 | 18,910.6 | 19,118.6 |
| Nebraska | 339.6 | 320.6 | 1,152.2 | 1,111.6 | 407.3 | 394.2 | 4,170.5 | 4,145.7 | 0.0 | 0.0 | 315.3 | 314.8 | 0.0 | 0.0 | 6,384.9 | 6,286.9 |
| North Dakota | 0.0 | 0.0 | 80.0 | 0.0 | 0.0 | 0.0 | 4,128.4 | 4,141.1 | 0.0 | 0.0 | 64.6 | 58.6 | 8.4 | 8.4 | 4,281.4 | 4,208.1 |
| South Dakota | 290.0 | 290.0 | 694.6 | 642.6 | 12.6 | 12.6 | 496.6 | 496.6 | 0.0 | 0.0 | 226.5 | 226.9 | 0.0 | 0.0 | 1,720.3 | 1,668.7 |
| South Atlantic | 44,984.5 | 43,584.2 | 31,813.3 | 31,464.5 | 4,667.4 | 3,497.9 | 64,429.1 | 67,099.3 | 669.8 | 633.8 | 14,139.9 | 16,522.6 | 265.0 | 135.0 | 160,969.0 | 162,937.3 |
| Delaware | 1,196.0 | 1,130.0 | 181.0 | 355.0 | 876.0 | 854.8 | 575.0 | 742.0 | 0.0 | 0.0 | 114.4 | 105.4 | 265.0 | 135.0 | 3,207.4 | 3,322.2 |
| District of Columbia | 0.0 | 0.0 | 9.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 | 10.0 |
| Florida | 24,667.9 | 23,942.6 | 8,405.4 | 7,958.9 | 2,647.3 | 1,755.5 | 10,117.0 | 10,266.0 | 586.0 | 550.0 | 6,701.9 | 8,982.8 | 0.0 | 0.0 | 53,125.5 | 53,455.8 |
| Georgia | 7,921.8 | 7,956.0 | 7,799.1 | 7,836.9 | 155.0 | 115.0 | 12,412.1 | 12,737.1 | 83.8 | 83.8 | 1,101.7 | 1,136.2 | 0.0 | 0.0 | 29,473.5 | 29,865.0 |
| Maryland | 230.0 | 230.0 | 1,590.4 | 1,488.3 | 325.8 | 335.5 | 4,757.0 | 4,757.0 | 0.0 | 0.0 | 2,809.9 | 2,807.6 | 0.0 | 0.0 | 9,713.1 | 9,618.4 |
| North Carolina | 4,706.6 | 4,074.6 | 6,035.7 | 6,011.7 | 0.0 | 0.0 | 10,794.8 | 12,104.8 | 0.0 | 0.0 | 402.4 | 447.4 | 0.0 | 0.0 | 21,939.5 | 22,638.5 |
| South Carolina | 2,416.0 | 2,281.7 | 2,841.2 | 2,852.2 | 110.8 | 110.8 | 5,945.5 | 6,225.5 | 0.0 | 0.0 | 661.4 | 663.5 | 0.0 | 0.0 | 11,974.9 | 12,133.7 |
| Virginia | 3,846.2 | 3,969.3 | 3,877.6 | 3,877.6 | 546.9 | 320.7 | 5,554.1 | 5,976.3 | 0.0 | 0.0 | 2,337.2 | 2,368.7 | 0.0 | 0.0 | 16,162.0 | 16,512.6 |
| West Virginia | 0.0 | 0.0 | 1,073.9 | 1,073.9 | 5.6 | 5.6 | 14,273.6 | 14,290.6 | 0.0 | 0.0 | 11.0 | 11.0 | 0.0 | 0.0 | 15,364.1 | 15,381.1 |
| East South Central | 17,642.3 | 17,725.9 | 12,829.5 | 12,865.8 | 2,744.4 | 2,865.5 | 37,111.0 | 37,415.2 | 0.0 | 0.0 | 205.1 | 197.1 | 99.8 | 103.8 | 70,632.1 | 71,173.3 |
| Alabama | 9,373.1 | 9,325.7 | 2,530.6 | 2,550.6 | 178.3 | 169.1 | 11,136.7 | 11,367.3 | 0.0 | 0.0 | 42.6 | 42.6 | 99.8 | 99.8 | 23,361.1 | 23,555.1 |
| Kentucky | 0.0 | 0.0 | 4,812.6 | 4,828.9 | 0.0 | 0.0 | 15,219.7 | 15,293.3 | 0.0 | 0.0 | 69.9 | 69.9 | 0.0 | 0.0 | 20,102.2 | 20,192.1 |
| Mississippi | 6,866.2 | 6,997.2 | 1,716.9 | 1,716.9 | 2,566.1 | 2,696.4 | 2,526.0 | 2,526.0 | 0.0 | 0.0 | 43.0 | 35.0 | 0.0 | 4.0 | 13,718.2 | 13,975.5 |
| Tennessee | 1,403.0 | 1,403.0 | 3,769.4 | 3,769.4 | 0.0 | 0.0 | 8,228.6 | 8,228.6 | 0.0 | 0.0 | 49.6 | 49.6 | 0.0 | 0.0 | 13,450.6 | 13,450.6 |
| West South Central | 55,721.7 | 56,430.9 | 12,311.6 | 11,725.5 | 36,756.5 | 38,460.0 | 37,956.7 | 36,984.8 | 984.2 | 1,409.8 | 198.8 | 195.9 | 379.9 | 379.9 | 144,309.4 | 145,586.8 |
| Arkansas | 4,630.5 | 4,660.5 | 727.6 | 753.1 | 813.7 | 2,258.0 | 5,122.3 | 5,144.0 | 0.0 | 0.0 | 12.2 | 17.2 | 0.0 | 0.0 | 11,306.3 | 12,832.8 |
| Louisiana | 7,053.4 | 7,324.2 | 2,640.4 | 2,406.2 | 9,068.5 | 8,434.2 | 3,437.8 | 3,414.0 | 973.6 | 975.0 | 49.3 | 46.9 | 34.3 | 34.3 | 23,257.3 | 22,634.8 |
| Oklahoma | 7,097.5 | 7,512.5 | 1,189.9 | 1,191.9 | 5,297.0 | 5,092.5 | 5,305.1 | 5,294.4 | 0.0 | 0.0 | 74.4 | 69.3 | 0.0 | 0.0 | 18,963.9 | 19,160.6 |
| Texas | 36,940.3 | 36,933.7 | 7,753.7 | 7,374.3 | 21,577.3 | 22,675.3 | 24,091.5 | 23,132.4 | 10.6 | 434.8 | 62.9 | 62.5 | 345.6 | 345.6 | 90,781.9 | 90,958.6 |
| Mountain | 21,173.5 | 21,136.7 | 8,869.8 | 8,778.6 | 3,395.2 | 3,545.8 | 30,022.9 | 30,756.4 | 52.0 | 52.0 | 328.7 | 325.2 | 94.9 | 94.9 | 63,937.0 | 64,689.6 |
| Arizona | 9,806.4 | 9,882.4 | 2,367.6 | 2,353.6 | 1,177.6 | 1,320.8 | 6,157.0 | 6,157.0 | 0.0 | 0.0 | 90.5 | 90.5 | 0.0 | 0.0 | 19,599.1 | 19,804.3 |
| Colorado | 2,731.7 | 2,733.2 | 2,539.3 | 2,545.5 | 352.2 | 381.0 | 5,281.8 | 5,482.3 | 0.0 | 0.0 | 169.8 | 177.9 | 0.0 | 0.0 | 11,074.8 | 11,319.9 |
| Idaho | 567.5 | 567.5 | 543.0 | 543.0 | 4.3 | 0.0 | 17.2 | 17.2 | 0.0 | 0.0 | 5.4 | 5.4 | 0.0 | 0.0 | 1,137.4 | 1,133.1 |
| Montana | 0.0 | 0.0 | 362.1 | 362.1 | 54.0 | 54.0 | 2,442.1 | 2,442.1 | 52.0 | 52.0 | 0.0 | 2.0 | 1.5 | 1.5 | 2,911.7 | 2,913.7 |
| Nevada | 5,410.5 | 5,287.2 | 1,385.6 | 1,380.6 | 587.1 | 587.1 | 1,295.4 | 1,293.4 | 0.0 | 0.0 | 6.0 | 11.4 | 0.0 | 0.0 | 8,684.6 | 8,559.7 |
| New Mexico | 1,456.4 | 1,465.4 | 1,035.4 | 947.2 | 888.7 | 896.0 | 3,471.0 | 4,031.0 | 0.0 | 0.0 | 23.4 | 4.4 | 0.0 | 0.0 | 6,874.9 | 7,344.0 |
| Utah | 1,201.0 | 1,201.0 | 520.2 | 530.0 | 325.3 | 300.9 | 4,926.0 | 4,901.0 | 0.0 | 0.0 | 27.8 | 27.8 | 0.0 | 0.0 | 7,000.3 | 6,960.7 |
| Wyoming | 0.0 | 0.0 | 116.6 | 116.6 | 6.0 | 6.0 | 6,432.4 | 6,432.4 | 0.0 | 0.0 | 5.8 | 5.8 | 93.4 | 93.4 | 6,654.2 | 6,654.2 |
| Pacific Contiguous | 25,609.5 | 24,264.9 | 11,347.1 | 9,042.1 | 13,544.1 | 15,073.4 | 2,177.8 | 2,275.5 | 17.0 | 0.0 | 448.3 | 412.1 | 211.7 | 211.1 | 53,355.5 | 51,279.1 |
| California | 19,924.0 | 18,322.8 | 10,572.1 | 8,207.1 | 13,516.5 | 15,045.8 | 252.8 | 350.5 | 17.0 | 0.0 | 433.1 | 396.9 | 211.7 | 211.1 | 44,927.2 | 42,534.2 |
| Oregon | 2,916.6 | 2,876.4 | 133.8 | 133.8 | 0.0 | 0.0 | 585.0 | 585.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3,635.4 | 3,595.2 |
| Washington | 2,768.9 | 3,065.7 | 641.2 | 701.2 | 27.6 | 27.6 | 1,340.0 | 1,340.0 | 0.0 | 0.0 | 15.2 | 15.2 | 0.0 | 0.0 | 4,792.9 | 5,149.7 |
| Pacific Noncontiguous | 605.2 | 329.4 | 476.2 | 510.0 | 13.8 | 14.2 | 290.5 | 290.5 | 0.0 | 0.0 | 2,653.6 | 2,652.7 | 6.4 | 6.0 | 4,045.7 | 3,802.8 |
| Alaska | 605.2 | 329.4 | 476.2 | 510.0 | 13.8 | 14.2 | 110.5 | 110.5 | 0.0 | 0.0 | 668.7 | 673.5 | 0.0 | 0.0 | 1,874.4 | 1,637.6 |
| Hawaii | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 180.0 | 180.0 | 0.0 | 0.0 | 1,984.9 | 1,979.2 | 6.4 | 6.0 | 2,171.3 | 2,165.2 |
| U.S. Total | 221,882.0 | 220,682.1 | 124,555.7 | 121,055.8 | 78,952.0 | 80,626.5 | 303,306.3 | 309,680.4 | 2,336.7 | 2,709.3 | 41,186.3 | 44,457.9 | 2,107.8 | 1,945.6 | 774,326.8 | 781,157.6 |

Values are final.

NOTES: Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of existing or planned capacity for some technologies such as solar photovoltaic generation.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 4.9. Total Capacity of Distributed and Dispersed Generators by Technology Type, 2005 through 2013

| Year | Capacity (MW) | | | | | | | | | | Number of Generators |
|---|---------------------|--------------------|---------------|---------|-------|--------------|---------|-------|----------------|----------|----------------------|
| | Internal Combustion | Combustion Turbine | Steam Turbine | Hydro | Wind | Photovoltaic | Storage | Other | Wind and Other | Total | |
| Distributed Generators | | | | | | | | | | | |
| 2005 | 4,025.0 | 1,917.0 | 1,830.0 | 999.0 | -- | -- | -- | -- | 995.0 | 9,766.0 | 17,371 |
| 2006 | 3,646.0 | 1,298.0 | 2,582.0 | 806.0 | -- | -- | -- | -- | 1,081.0 | 9,411.0 | 5,044 |
| 2007 | 4,624.0 | 1,990.0 | 3,596.0 | 1,051.0 | -- | -- | -- | -- | 1,441.0 | 12,702.0 | 7,103 |
| 2008 | 5,112.0 | 1,949.0 | 3,060.0 | 1,154.0 | -- | -- | -- | -- | 1,588.0 | 12,863.0 | 9,591 |
| 2009 | 4,339.0 | 4,147.0 | 4,621.0 | 1,166.0 | -- | -- | -- | -- | 1,729.0 | 16,002.0 | 13,006 |
| 2010 | 886.8 | 186.0 | 109.9 | 97.4 | 98.9 | 236.3 | -- | 372.7 | -- | 1,988.0 | 15,630 |
| 2011 | 791.1 | 115.5 | 64.9 | 97.9 | 36.7 | 314.8 | 0.2 | 264.3 | -- | 1,685.4 | 20,941 |
| 2012 | 756.1 | 105.8 | 60.2 | 119.9 | 252.9 | 543.7 | 15.2 | 324.4 | -- | 1,990.6 | 28,252 |
| 2013 | 913.5 | 89.1 | 28.7 | 101.4 | 111.6 | 1,196.5 | 2.0 | 121.0 | -- | 2,563.3 | 38,643 |
| Dispersed Generators | | | | | | | | | | | |
| 2005 | 4,290.0 | 335.0 | 126.0 | 2.0 | -- | -- | -- | -- | 13.0 | 4,766.0 | 11,373 |
| 2006 | 6,524.0 | 346.0 | 157.0 | 3.0 | -- | -- | -- | -- | 8.0 | 7,037.0 | 9,536 |
| 2007 | 7,866.0 | 268.0 | 102.0 | 31.0 | -- | -- | -- | -- | 30.0 | 8,297.0 | 11,057 |
| 2008 | 9,335.0 | 86.0 | 248.0 | 34.0 | -- | -- | -- | -- | 70.0 | 9,773.0 | 12,262 |
| 2009 | 9,751.0 | 329.0 | 204.0 | 81.0 | -- | -- | -- | -- | 108.0 | 10,475.0 | 13,928 |
| 2010 | 2,771.2 | 64.4 | 13.8 | 8.4 | 6.3 | 95.2 | 7.0 | 17.9 | -- | 2,984.2 | 16,874 |
| 2011 | 2,916.9 | 40.3 | 14.6 | 6.0 | 3.2 | 2.7 | 8.0 | 7.9 | -- | 2,999.6 | 14,123 |
| 2012 | 3,180.9 | 49.8 | -- | 2.2 | 3.1 | 8.5 | 7.7 | 13.5 | -- | 3,265.5 | 14,557 |
| 2013 | 3,259.7 | 159.8 | 17.0 | 1.9 | 4.5 | 21.6 | 8.7 | 25.8 | -- | 3,499.0 | 17,991 |
| Distributed and Dispersed Generators | | | | | | | | | | | |
| 2005 | 8,315.0 | 2,252.0 | 1,956.0 | 1,001.0 | -- | -- | -- | -- | 1,008.0 | 14,532.0 | 28,744 |
| 2006 | 10,170.0 | 1,644.0 | 2,739.0 | 809.0 | -- | -- | -- | -- | 1,089.0 | 16,448.0 | 14,580 |
| 2007 | 12,490.0 | 2,258.0 | 3,698.0 | 1,082.0 | -- | -- | -- | -- | 1,471.0 | 20,999.0 | 18,160 |
| 2008 | 14,447.0 | 2,035.0 | 3,308.0 | 1,188.0 | -- | -- | -- | -- | 1,658.0 | 22,636.0 | 21,853 |
| 2009 | 14,090.0 | 4,476.0 | 4,825.0 | 1,247.0 | -- | -- | -- | -- | 1,837.0 | 26,477.0 | 26,934 |
| 2010 | 3,658.0 | 250.4 | 123.7 | 105.8 | 105.2 | 331.5 | 7.0 | 390.6 | -- | 4,972.2 | 32,504 |
| 2011 | 3,708.0 | 155.8 | 79.5 | 103.9 | 39.9 | 317.5 | 8.2 | 272.2 | -- | 4,685.0 | 35,064 |
| 2012 | 3,937.0 | 155.6 | 60.2 | 122.1 | 256.0 | 552.2 | 22.9 | 337.9 | -- | 5,256.1 | 42,809 |
| 2013 | 4,173.2 | 248.9 | 45.7 | 103.3 | 116.1 | 1,218.1 | 10.7 | 146.8 | -- | 6,062.3 | 56,634 |

Starting in 2013, the residential sector is now included and all net metering units are excluded.

Distributed and Dispersed generator data in 2005 include a significant number of generators reported by one respondent, which may be for residential applications.

Prior to 2010, data contains generators over and under 1 MW, from 2010 forward, data contains only generators under 1 MW.

Distributed generators are commercial and industrial generators which are connected to the grid. Dispersed generators are commercial and industrial generators which are not connected to the grid. Both types may be installed at or near a customer's site, or at other locations. They may be owned by either the customers of the distribution utility or by the utility. Other includes generators for which technology is not specified.

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

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

Table 4.10. Net Metering Customers and Capacity by Technology Type, by End Use Sector, 2003 through 2013

| Year | Capacity (MW) | | | | | Customers | | | | |
|-------------------------|---------------|------------|------------|----------------|-------|-------------|------------|------------|----------------|---------|
| | Residential | Commercial | Industrial | Transportation | Total | Residential | Commercial | Industrial | Transportation | Total |
| Historical Data | | | | | | | | | | |
| 2003 | N/A | N/A | N/A | N/A | N/A | 5,870 | 775 | 168 | -- | 6,813 |
| 2004 | N/A | N/A | N/A | N/A | N/A | 14,114 | 1,494 | 215 | 3 | 15,826 |
| 2005 | N/A | N/A | N/A | N/A | N/A | 19,244 | 1,565 | 337 | -- | 21,146 |
| 2006 | N/A | N/A | N/A | N/A | N/A | 30,689 | 2,553 | 376 | -- | 33,618 |
| 2007 | N/A | N/A | N/A | N/A | N/A | 44,450 | 3,513 | 391 | -- | 48,354 |
| 2008 | N/A | N/A | N/A | N/A | N/A | 64,400 | 5,305 | 304 | -- | 70,009 |
| 2009 | N/A | N/A | N/A | N/A | N/A | 88,205 | 7,365 | 919 | -- | 96,489 |
| Photovoltaic | | | | | | | | | | |
| 2010 | 698 | 518 | 243 | -- | 1,459 | 137,618 | 11,897 | 1,225 | -- | 150,740 |
| 2011 | 1,024 | 1,089 | 382 | -- | 2,495 | 198,255 | 18,345 | 2,418 | -- | 219,018 |
| 2012 | 1,542 | 1,742 | 395 | -- | 3,680 | 294,437 | 27,611 | 1,317 | -- | 323,365 |
| 2013 | 2,286 | 2,352 | 464 | -- | 5,101 | 437,373 | 35,669 | 1,666 | -- | 474,708 |
| Wind | | | | | | | | | | |
| 2010 | 84 | 26 | 6 | -- | 116 | 3,467 | 583 | 37 | -- | 4,087 |
| 2011 | 28 | 44 | 10 | -- | 82 | 4,456 | 905 | 50 | -- | 5,411 |
| 2012 | 33 | 75 | 17 | -- | 126 | 4,796 | 1,143 | 48 | -- | 5,987 |
| 2013 | 42 | 93 | 14 | -- | 148 | 5,213 | 1,307 | 61 | -- | 6,581 |
| Other | | | | | | | | | | |
| 2010 | 11 | 35 | 25 | -- | 71 | 767 | 271 | 56 | -- | 1,094 |
| 2011 | 5 | 49 | 57 | -- | 111 | 807 | 242 | 100 | -- | 1,149 |
| 2012 | 8 | 66 | 83 | -- | 157 | 862 | 314 | 122 | -- | 1,298 |
| 2013 | 7 | 74 | 64 | -- | 145 | 683 | 329 | 165 | -- | 1,177 |
| All Technologies | | | | | | | | | | |
| 2010 | 793 | 579 | 274 | -- | 1,646 | 141,852 | 12,751 | 1,318 | -- | 155,921 |
| 2011 | 1,057 | 1,183 | 448 | -- | 2,688 | 203,518 | 19,492 | 2,568 | -- | 225,578 |
| 2012 | 1,583 | 1,882 | 496 | -- | 3,962 | 300,095 | 29,068 | 1,487 | -- | 330,650 |
| 2013 | 2,334 | 2,519 | 541 | -- | 5,395 | 443,269 | 37,305 | 1,892 | -- | 482,466 |

Starting in 2013, there is no maximum capacity on installed units.

Capacity and customer count was not collected by technology type before 2010.

N/A = Not Available.

Total customer count for the years 2007, 2009, and 2010 were revised based on requests from respondents.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4.11. Fuel-Switching Capacity of Operable Generators Reporting Natural Gas as the Primary Fuel, by Producer Type, 2013
(Megawatts, Percent)**

| Producer Type | Total Net Summer Capacity of All Generators Reporting Natural Gas as the Primary Fuel | Fuel-Switchable Part of Total | | | |
|---|---|--|--|--|---|
| | | Net Summer Capacity of Natural Gas-Fired Generators Reporting the Ability to Switch to Petroleum Liquids | Fuel Switchable Capacity as Percent of Total | Maximum Achievable Net Summer Capacity Using Petroleum Liquids | Fuel Switchable Net Summer Capacity Reported to Have No Factors that Limit the Ability to Switch to Petroleum Liquids |
| Electric Utilities | 208,486 | 80,223 | 38.5 | 80,010 | 18,953 |
| Independent Power Producers, Non-Combined Heat and Power Plants | 171,654 | 42,099 | 24.5 | 37,883 | 8,646 |
| Independent Power Producers, Combined Heat and Power Plants | 29,081 | 6,487 | 22.3 | 6,080 | 1,264 |
| Electric Power Sector Subtotal | 409,221 | 128,809 | 31.5 | 123,973 | 28,863 |
| Commercial Sector | 1,779 | 788 | 44.3 | 755 | 106 |
| Industrial Sector | 14,390 | 1,330 | 9.2 | 1,247 | 282 |
| All Sectors | 425,390 | 130,927 | 30.8 | 125,975 | 29,252 |

Notes: Petroleum liquids include distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, waste oil, and propane.
Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 4.12. Fuel-Switching Capacity of Operable Generators Reporting Petroleum Liquids as the Primary Fuel, by Producer Type, 2013 (Megawatts, Percent)

| Producer Type | Total Net Summer Capacity of All Generators Reporting Petroleum Liquids as the Primary Fuel | Fuel-Switchable Part of Total | | |
|---|---|--|--|--|
| | | Net Summer Capacity of Petroleum Liquids-Fired Generators Reporting the Ability to Switch to Natural Gas | Fuel Switchable Capacity as Percent of Total | Maximum Achievable Net Summer Capacity Using Natural Gas |
| Electric Utilities | 22,842 | 5,921 | 25.9 | 6,429 |
| Independent Power Producers, Non-Combined Heat and Power Plants | 17,309 | 7,095 | 41.0 | 5,852 |
| Independent Power Producers, Combined Heat and Power Plants | 270 | -- | -- | -- |
| Electric Power Sector Subtotal | 40,421 | 13,016 | 32.2 | 12,281 |
| Commercial Sector | 456 | 21 | 4.7 | 21 |
| Industrial Sector | 309 | 19 | 6.0 | 19 |
| All Sectors | 41,186 | 13,055 | 31.7 | 12,320 |

Notes: Petroleum liquids include distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, waste oil, and propane.

Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 4.13. Fuel-Switching Capacity of Operable Generators Reporting Natural Gas as the Primary Fuel, by Type of Prime Mover, 2013 (Megawatts, Percent)

| Prime Mover Type | Number of Generators | Net Summer Capacity of Natural Gas-Fired Generators Reporting the Ability to Switch to Petroleum Liquids | Fuel Switchable Net Summer Capacity Reported to Have No Factors that Limit the Ability to Switch to Petroleum Liquids |
|----------------------------------|-----------------------------|---|--|
| Steam Generator | 189 | 29,066 | 10,287 |
| Combined Cycle | 417 | 44,593 | 6,741 |
| Internal Combustion | 343 | 1,054 | 318 |
| Gas Turbine | 914 | 56,214 | 11,906 |
| All Fuel Switchable Prime Movers | 1,863 | 130,927 | 29,252 |

Notes: Petroleum liquids include distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, waste oil, and propane.

Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 4.14. Fuel-Switching Capacity of Operable Generators Reporting Natural Gas as the Primary Fuel,

by Year of Initial Commercial Operation, 2013 (Megawatts, Percent)

| Year of Initial Commercial Operation | Number of Generators | Net Summer Capacity of Natural Gas-Fired Generators Reporting the Ability to Switch to Petroleum Liquids | Fuel Switchable Net Summer Capacity Reported to Have No Factors that Limit the Ability to Switch to Petroleum Liquids |
|---|-----------------------------|---|--|
| Pre-1970 | 316 | 12,102 | 5,537 |
| 1970-1974 | 349 | 18,161 | 6,959 |
| 1975-1979 | 101 | 11,466 | 3,525 |
| 1980-1984 | 47 | 970 | 336 |
| 1985-1989 | 93 | 2,865 | 391 |
| 1990-1994 | 220 | 12,110 | 1,615 |
| 1995-1999 | 132 | 9,498 | 1,748 |
| 2000-2004 | 391 | 38,528 | 7,892 |
| 2005-2009 | 128 | 16,171 | 1,160 |
| 2010-2013 | 86 | 9,057 | 90 |
| Total | 1,863 | 130,927 | 29,252 |

Notes: Petroleum liquids include distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, waste oil, and propane.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

Chapter 5

Consumption of Fossil Fuels

Table 5.1.A. Coal: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Thousand Tons)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 1,014,058 | 757,384 | 245,652 | 582 | 10,440 |
| 2004 | 1,020,523 | 772,224 | 240,235 | 377 | 7,687 |
| 2005 | 1,041,448 | 761,349 | 272,218 | 377 | 7,504 |
| 2006 | 1,030,556 | 753,390 | 269,412 | 347 | 7,408 |
| 2007 | 1,046,795 | 764,765 | 276,581 | 361 | 5,089 |
| 2008 | 1,042,335 | 760,326 | 276,565 | 369 | 5,075 |
| 2009 | 934,683 | 695,615 | 234,077 | 317 | 4,674 |
| 2010 | 979,684 | 721,431 | 249,814 | 314 | 8,125 |
| 2011 | 934,938 | 689,316 | 239,541 | 347 | 5,735 |
| 2012 | 825,734 | 615,467 | 205,295 | 307 | 4,665 |
| 2013 | 860,729 | 638,327 | 217,219 | 513 | 4,670 |
| 2011 | | | | | |
| January | 90,208 | 66,083 | 23,598 | 40 | 487 |
| February | 73,614 | 54,434 | 18,733 | 39 | 409 |
| March | 72,645 | 54,115 | 18,034 | 37 | 460 |
| April | 67,128 | 49,443 | 17,200 | 25 | 460 |
| May | 73,522 | 54,959 | 18,051 | 25 | 487 |
| June | 84,156 | 62,690 | 20,931 | 27 | 507 |
| July | 94,304 | 69,942 | 23,782 | 32 | 548 |
| August | 92,297 | 68,137 | 23,570 | 29 | 562 |
| September | 76,790 | 55,844 | 20,442 | 26 | 479 |
| October | 69,605 | 50,644 | 18,520 | 21 | 419 |
| November | 67,059 | 48,879 | 17,762 | 21 | 397 |
| December | 73,610 | 54,146 | 18,917 | 26 | 521 |
| 2012 | | | | | |
| January | 70,744 | 52,338 | 17,967 | 29 | 410 |
| February | 62,974 | 46,908 | 15,665 | 27 | 374 |
| March | 57,468 | 43,413 | 13,640 | 26 | 388 |
| April | 51,806 | 39,920 | 11,507 | 23 | 356 |
| May | 62,801 | 46,900 | 15,517 | 22 | 361 |
| June | 71,656 | 53,708 | 17,543 | 26 | 379 |
| July | 86,516 | 64,433 | 21,603 | 28 | 452 |
| August | 82,676 | 61,480 | 20,730 | 28 | 439 |
| September | 69,478 | 51,516 | 17,558 | 24 | 381 |
| October | 66,486 | 49,060 | 17,044 | 21 | 361 |
| November | 69,913 | 51,276 | 18,245 | 25 | 366 |
| December | 73,217 | 54,516 | 18,275 | 27 | 398 |
| 2013 | | | | | |
| January | 75,049 | 55,688 | 18,919 | 55 | 386 |
| February | 67,129 | 49,022 | 17,700 | 50 | 358 |
| March | 70,469 | 52,038 | 17,979 | 49 | 404 |
| April | 60,807 | 45,540 | 14,852 | 40 | 374 |
| May | 64,688 | 48,328 | 15,922 | 40 | 399 |
| June | 75,054 | 56,015 | 18,605 | 38 | 395 |
| July | 83,213 | 61,387 | 21,360 | 38 | 429 |
| August | 81,970 | 61,396 | 20,127 | 38 | 408 |
| September | 72,723 | 53,126 | 19,179 | 38 | 380 |
| October | 66,348 | 49,423 | 16,521 | 37 | 367 |
| November | 65,959 | 49,621 | 15,930 | 42 | 366 |
| December | 77,319 | 56,743 | 20,125 | 47 | 404 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.1.B. Coal: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Thousand Tons)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 17,720 | 0 | 2,080 | 1,234 | 14,406 |
| 2004 | 24,275 | 0 | 3,809 | 1,540 | 18,926 |
| 2005 | 23,833 | 0 | 3,918 | 1,544 | 18,371 |
| 2006 | 23,227 | 0 | 3,834 | 1,539 | 17,854 |
| 2007 | 22,810 | 0 | 3,795 | 1,566 | 17,449 |
| 2008 | 22,168 | 0 | 3,689 | 1,652 | 16,827 |
| 2009 | 20,507 | 0 | 3,935 | 1,481 | 15,091 |
| 2010 | 21,727 | 0 | 3,808 | 1,406 | 16,513 |
| 2011 | 21,532 | 0 | 3,628 | 1,321 | 16,584 |
| 2012 | 19,333 | 0 | 2,790 | 1,143 | 15,400 |
| 2013 | 18,350 | 0 | 2,416 | 843 | 15,090 |
| 2011 | | | | | |
| January | 2,084 | 0 | 340 | 149 | 1,595 |
| February | 1,833 | 0 | 307 | 135 | 1,391 |
| March | 1,869 | 0 | 310 | 127 | 1,431 |
| April | 1,713 | 0 | 287 | 98 | 1,327 |
| May | 1,776 | 0 | 328 | 99 | 1,349 |
| June | 1,726 | 0 | 287 | 103 | 1,336 |
| July | 1,824 | 0 | 313 | 113 | 1,397 |
| August | 1,807 | 0 | 305 | 101 | 1,400 |
| September | 1,689 | 0 | 283 | 96 | 1,309 |
| October | 1,712 | 0 | 294 | 89 | 1,329 |
| November | 1,689 | 0 | 277 | 96 | 1,315 |
| December | 1,812 | 0 | 296 | 113 | 1,403 |
| 2012 | | | | | |
| January | 2,021 | 0 | 289 | 127 | 1,605 |
| February | 1,797 | 0 | 232 | 108 | 1,458 |
| March | 1,609 | 0 | 212 | 101 | 1,295 |
| April | 1,370 | 0 | 166 | 79 | 1,125 |
| May | 1,518 | 0 | 230 | 86 | 1,202 |
| June | 1,486 | 0 | 229 | 83 | 1,174 |
| July | 1,598 | 0 | 247 | 91 | 1,260 |
| August | 1,631 | 0 | 275 | 93 | 1,264 |
| September | 1,473 | 0 | 235 | 83 | 1,154 |
| October | 1,545 | 0 | 239 | 80 | 1,226 |
| November | 1,600 | 0 | 218 | 99 | 1,283 |
| December | 1,685 | 0 | 218 | 113 | 1,354 |
| 2013 | | | | | |
| January | 1,699 | 0 | 225 | 94 | 1,381 |
| February | 1,527 | 0 | 198 | 88 | 1,242 |
| March | 1,631 | 0 | 203 | 83 | 1,345 |
| April | 1,442 | 0 | 192 | 59 | 1,191 |
| May | 1,479 | 0 | 194 | 66 | 1,219 |
| June | 1,428 | 0 | 197 | 63 | 1,168 |
| July | 1,527 | 0 | 219 | 63 | 1,245 |
| August | 1,496 | 0 | 215 | 63 | 1,218 |
| September | 1,404 | 0 | 196 | 58 | 1,150 |
| October | 1,470 | 0 | 164 | 53 | 1,253 |
| November | 1,599 | 0 | 212 | 70 | 1,318 |
| December | 1,647 | 0 | 203 | 83 | 1,362 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.1.C. Coal: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Thousand Tons)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 1,031,778 | 757,384 | 247,732 | 1,816 | 24,846 |
| 2004 | 1,044,798 | 772,224 | 244,044 | 1,917 | 26,613 |
| 2005 | 1,065,281 | 761,349 | 276,135 | 1,922 | 25,875 |
| 2006 | 1,053,783 | 753,390 | 273,246 | 1,886 | 25,262 |
| 2007 | 1,069,606 | 764,765 | 280,377 | 1,927 | 22,537 |
| 2008 | 1,064,503 | 760,326 | 280,254 | 2,021 | 21,902 |
| 2009 | 955,190 | 695,615 | 238,012 | 1,798 | 19,766 |
| 2010 | 1,001,411 | 721,431 | 253,621 | 1,720 | 24,638 |
| 2011 | 956,470 | 689,316 | 243,168 | 1,668 | 22,319 |
| 2012 | 845,066 | 615,467 | 208,085 | 1,450 | 20,065 |
| 2013 | 879,078 | 638,327 | 219,635 | 1,356 | 19,761 |
| 2011 | | | | | |
| January | 92,292 | 66,083 | 23,939 | 189 | 2,082 |
| February | 75,447 | 54,434 | 19,040 | 173 | 1,800 |
| March | 74,514 | 54,115 | 18,343 | 164 | 1,891 |
| April | 68,841 | 49,443 | 17,487 | 124 | 1,787 |
| May | 75,298 | 54,959 | 18,379 | 124 | 1,836 |
| June | 85,881 | 62,690 | 21,218 | 130 | 1,843 |
| July | 96,128 | 69,942 | 24,095 | 145 | 1,946 |
| August | 94,103 | 68,137 | 23,875 | 129 | 1,962 |
| September | 78,479 | 55,844 | 20,724 | 122 | 1,788 |
| October | 71,317 | 50,644 | 18,814 | 110 | 1,748 |
| November | 68,748 | 48,879 | 18,039 | 117 | 1,712 |
| December | 75,422 | 54,146 | 19,213 | 139 | 1,923 |
| 2012 | | | | | |
| January | 72,764 | 52,338 | 18,256 | 155 | 2,015 |
| February | 64,771 | 46,908 | 15,897 | 135 | 1,832 |
| March | 59,077 | 43,413 | 13,852 | 128 | 1,684 |
| April | 53,176 | 39,920 | 11,673 | 102 | 1,481 |
| May | 64,319 | 46,900 | 15,748 | 108 | 1,563 |
| June | 73,142 | 53,708 | 17,772 | 109 | 1,553 |
| July | 88,115 | 64,433 | 21,850 | 120 | 1,712 |
| August | 84,307 | 61,480 | 21,004 | 120 | 1,703 |
| September | 70,951 | 51,516 | 17,793 | 107 | 1,535 |
| October | 68,030 | 49,060 | 17,283 | 101 | 1,587 |
| November | 71,512 | 51,276 | 18,464 | 124 | 1,649 |
| December | 74,901 | 54,516 | 18,493 | 141 | 1,751 |
| 2013 | | | | | |
| January | 76,748 | 55,688 | 19,144 | 149 | 1,767 |
| February | 68,656 | 49,022 | 17,897 | 137 | 1,600 |
| March | 72,100 | 52,038 | 18,182 | 132 | 1,748 |
| April | 62,249 | 45,540 | 15,044 | 100 | 1,565 |
| May | 66,168 | 48,328 | 16,116 | 105 | 1,618 |
| June | 76,482 | 56,015 | 18,802 | 102 | 1,563 |
| July | 84,740 | 61,387 | 21,580 | 100 | 1,674 |
| August | 83,466 | 61,396 | 20,342 | 102 | 1,626 |
| September | 74,127 | 53,126 | 19,375 | 96 | 1,530 |
| October | 67,818 | 49,423 | 16,685 | 91 | 1,620 |
| November | 67,559 | 49,621 | 16,142 | 112 | 1,683 |
| December | 78,966 | 56,743 | 20,327 | 130 | 1,765 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.1.D. Coal: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 20,366,879 | 15,391,188 | 4,745,545 | 13,080 | 217,066 |
| 2004 | 20,375,751 | 15,610,335 | 4,606,584 | 8,251 | 150,581 |
| 2005 | 20,801,716 | 15,397,688 | 5,250,824 | 8,314 | 144,889 |
| 2006 | 20,527,410 | 15,211,077 | 5,166,001 | 7,526 | 142,807 |
| 2007 | 20,841,871 | 15,436,110 | 5,287,202 | 7,833 | 110,727 |
| 2008 | 20,548,610 | 15,189,050 | 5,242,194 | 8,070 | 109,296 |
| 2009 | 18,240,611 | 13,744,178 | 4,390,596 | 7,007 | 98,829 |
| 2010 | 19,196,315 | 14,333,496 | 4,709,686 | 6,815 | 146,318 |
| 2011 | 18,074,298 | 13,551,416 | 4,399,144 | 7,263 | 116,475 |
| 2012 | 15,867,141 | 11,995,971 | 3,767,011 | 6,383 | 97,775 |
| 2013 | 16,509,468 | 12,421,537 | 3,981,216 | 9,444 | 97,270 |
| 2011 | | | | | |
| January | 1,763,170 | 1,307,741 | 444,639 | 836 | 9,955 |
| February | 1,432,157 | 1,072,748 | 350,173 | 798 | 8,438 |
| March | 1,400,484 | 1,061,807 | 328,646 | 756 | 9,274 |
| April | 1,295,986 | 972,440 | 313,907 | 529 | 9,110 |
| May | 1,432,180 | 1,086,571 | 335,344 | 537 | 9,727 |
| June | 1,646,308 | 1,246,730 | 388,860 | 596 | 10,123 |
| July | 1,847,192 | 1,390,380 | 445,064 | 682 | 11,066 |
| August | 1,797,976 | 1,351,103 | 434,923 | 617 | 11,333 |
| September | 1,471,083 | 1,094,574 | 366,248 | 548 | 9,712 |
| October | 1,321,304 | 978,991 | 333,369 | 436 | 8,509 |
| November | 1,271,795 | 944,086 | 319,257 | 415 | 8,036 |
| December | 1,394,662 | 1,044,244 | 338,714 | 513 | 11,191 |
| 2012 | | | | | |
| January | 1,348,608 | 1,012,122 | 327,295 | 595 | 8,595 |
| February | 1,194,392 | 905,071 | 280,975 | 570 | 7,777 |
| March | 1,105,492 | 846,083 | 250,739 | 543 | 8,127 |
| April | 1,007,851 | 785,334 | 214,575 | 473 | 7,469 |
| May | 1,216,206 | 920,501 | 287,764 | 454 | 7,487 |
| June | 1,383,256 | 1,050,959 | 323,743 | 548 | 8,005 |
| July | 1,688,679 | 1,271,150 | 407,424 | 612 | 9,493 |
| August | 1,601,665 | 1,207,322 | 384,462 | 588 | 9,293 |
| September | 1,322,241 | 998,493 | 315,266 | 495 | 7,986 |
| October | 1,262,892 | 947,165 | 307,710 | 439 | 7,578 |
| November | 1,338,310 | 997,932 | 332,222 | 507 | 7,648 |
| December | 1,397,549 | 1,053,838 | 334,837 | 558 | 8,316 |
| 2013 | | | | | |
| January | 1,437,357 | 1,079,455 | 348,957 | 1,011 | 7,934 |
| February | 1,285,305 | 951,650 | 325,325 | 916 | 7,414 |
| March | 1,357,798 | 1,015,890 | 332,574 | 894 | 8,440 |
| April | 1,168,918 | 885,167 | 275,255 | 719 | 7,777 |
| May | 1,248,079 | 943,332 | 295,610 | 732 | 8,405 |
| June | 1,447,978 | 1,096,663 | 342,282 | 735 | 8,297 |
| July | 1,599,995 | 1,195,369 | 394,949 | 717 | 8,961 |
| August | 1,569,213 | 1,196,057 | 363,938 | 714 | 8,504 |
| September | 1,393,265 | 1,037,738 | 346,865 | 710 | 7,952 |
| October | 1,263,088 | 956,093 | 298,689 | 666 | 7,641 |
| November | 1,263,059 | 963,935 | 290,733 | 764 | 7,628 |
| December | 1,475,413 | 1,100,190 | 366,039 | 867 | 8,318 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.1.E. Coal: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 416,700 | 0 | 47,817 | 28,479 | 340,405 |
| 2004 | 564,497 | 0 | 87,981 | 34,538 | 441,978 |
| 2005 | 548,666 | 0 | 88,364 | 34,616 | 425,685 |
| 2006 | 532,561 | 0 | 84,335 | 34,086 | 414,140 |
| 2007 | 521,717 | 0 | 83,838 | 34,690 | 403,189 |
| 2008 | 503,096 | 0 | 81,416 | 36,163 | 385,517 |
| 2009 | 462,674 | 0 | 90,867 | 32,651 | 339,156 |
| 2010 | 490,931 | 0 | 90,184 | 30,725 | 370,022 |
| 2011 | 479,822 | 0 | 84,855 | 28,056 | 366,911 |
| 2012 | 420,923 | 0 | 58,275 | 23,673 | 338,975 |
| 2013 | 401,108 | 0 | 47,677 | 18,535 | 334,897 |
| 2011 | | | | | |
| January | 46,693 | 0 | 7,965 | 3,205 | 35,523 |
| February | 40,900 | 0 | 7,129 | 2,879 | 30,892 |
| March | 42,037 | 0 | 7,448 | 2,680 | 31,909 |
| April | 38,014 | 0 | 6,703 | 2,064 | 29,247 |
| May | 39,478 | 0 | 7,680 | 2,137 | 29,662 |
| June | 38,498 | 0 | 6,693 | 2,258 | 29,547 |
| July | 40,876 | 0 | 7,353 | 2,508 | 31,015 |
| August | 40,319 | 0 | 7,136 | 2,239 | 30,945 |
| September | 37,717 | 0 | 6,626 | 2,077 | 29,014 |
| October | 38,024 | 0 | 6,905 | 1,781 | 29,339 |
| November | 37,180 | 0 | 6,248 | 1,914 | 29,019 |
| December | 40,087 | 0 | 6,971 | 2,317 | 30,799 |
| 2012 | | | | | |
| January | 43,026 | 0 | 6,114 | 2,569 | 34,343 |
| February | 38,171 | 0 | 4,911 | 2,228 | 31,032 |
| March | 35,483 | 0 | 4,736 | 2,034 | 28,712 |
| April | 30,144 | 0 | 3,638 | 1,591 | 24,915 |
| May | 33,661 | 0 | 5,066 | 1,809 | 26,787 |
| June | 32,897 | 0 | 4,881 | 1,829 | 26,186 |
| July | 35,103 | 0 | 5,153 | 2,015 | 27,936 |
| August | 35,456 | 0 | 5,494 | 1,993 | 27,968 |
| September | 32,151 | 0 | 4,857 | 1,728 | 25,566 |
| October | 33,618 | 0 | 4,902 | 1,615 | 27,101 |
| November | 34,627 | 0 | 4,274 | 1,960 | 28,393 |
| December | 36,586 | 0 | 4,246 | 2,303 | 30,036 |
| 2013 | | | | | |
| January | 36,987 | 0 | 4,287 | 2,076 | 30,623 |
| February | 33,266 | 0 | 3,683 | 1,946 | 27,637 |
| March | 35,908 | 0 | 4,150 | 1,846 | 29,912 |
| April | 31,406 | 0 | 3,702 | 1,279 | 26,425 |
| May | 32,408 | 0 | 3,873 | 1,451 | 27,084 |
| June | 31,344 | 0 | 3,978 | 1,402 | 25,965 |
| July | 33,467 | 0 | 4,395 | 1,402 | 27,671 |
| August | 32,657 | 0 | 4,286 | 1,397 | 26,974 |
| September | 30,797 | 0 | 4,015 | 1,275 | 25,506 |
| October | 32,206 | 0 | 3,187 | 1,148 | 27,871 |
| November | 35,050 | 0 | 4,209 | 1,523 | 29,318 |
| December | 35,613 | 0 | 3,911 | 1,791 | 29,911 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.1.F. Coal: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 20,783,579 | 15,391,188 | 4,793,362 | 41,559 | 557,471 |
| 2004 | 20,940,247 | 15,610,335 | 4,694,565 | 42,789 | 592,559 |
| 2005 | 21,350,382 | 15,397,688 | 5,339,188 | 42,931 | 570,574 |
| 2006 | 21,059,972 | 15,211,077 | 5,250,336 | 41,612 | 556,948 |
| 2007 | 21,363,588 | 15,436,110 | 5,371,039 | 42,523 | 513,916 |
| 2008 | 21,051,706 | 15,189,050 | 5,323,610 | 44,233 | 494,813 |
| 2009 | 18,703,284 | 13,744,178 | 4,481,463 | 39,658 | 437,985 |
| 2010 | 19,687,246 | 14,333,496 | 4,799,870 | 37,540 | 516,341 |
| 2011 | 18,554,120 | 13,551,416 | 4,483,999 | 35,319 | 483,385 |
| 2012 | 16,288,063 | 11,995,971 | 3,825,286 | 30,056 | 436,750 |
| 2013 | 16,910,576 | 12,421,537 | 4,028,894 | 27,979 | 432,167 |
| 2011 | | | | | |
| January | 1,809,863 | 1,307,741 | 452,604 | 4,040 | 45,479 |
| February | 1,473,056 | 1,072,748 | 357,302 | 3,677 | 39,330 |
| March | 1,442,520 | 1,061,807 | 336,094 | 3,436 | 41,183 |
| April | 1,334,000 | 972,440 | 320,611 | 2,593 | 38,357 |
| May | 1,471,658 | 1,086,571 | 343,024 | 2,674 | 39,389 |
| June | 1,684,806 | 1,246,730 | 395,552 | 2,854 | 39,670 |
| July | 1,888,069 | 1,390,380 | 452,416 | 3,191 | 42,082 |
| August | 1,838,295 | 1,351,103 | 442,059 | 2,856 | 42,277 |
| September | 1,508,800 | 1,094,574 | 372,875 | 2,625 | 38,726 |
| October | 1,359,328 | 978,991 | 340,273 | 2,216 | 37,848 |
| November | 1,308,974 | 944,086 | 325,505 | 2,329 | 37,055 |
| December | 1,434,749 | 1,044,244 | 345,685 | 2,829 | 41,990 |
| 2012 | | | | | |
| January | 1,391,633 | 1,012,122 | 333,409 | 3,164 | 42,938 |
| February | 1,232,563 | 905,071 | 285,886 | 2,797 | 38,809 |
| March | 1,140,974 | 846,083 | 255,475 | 2,577 | 36,839 |
| April | 1,037,996 | 785,334 | 218,213 | 2,064 | 32,384 |
| May | 1,249,868 | 920,501 | 292,830 | 2,263 | 34,274 |
| June | 1,416,152 | 1,050,959 | 328,624 | 2,377 | 34,192 |
| July | 1,723,783 | 1,271,150 | 412,576 | 2,627 | 37,429 |
| August | 1,637,121 | 1,207,322 | 389,956 | 2,581 | 37,261 |
| September | 1,354,391 | 998,493 | 320,123 | 2,223 | 33,552 |
| October | 1,296,510 | 947,165 | 312,612 | 2,054 | 34,679 |
| November | 1,372,937 | 997,932 | 336,496 | 2,468 | 36,041 |
| December | 1,434,135 | 1,053,838 | 339,084 | 2,862 | 38,352 |
| 2013 | | | | | |
| January | 1,474,344 | 1,079,455 | 353,245 | 3,088 | 38,556 |
| February | 1,318,570 | 951,650 | 329,008 | 2,862 | 35,051 |
| March | 1,393,706 | 1,015,890 | 336,724 | 2,740 | 38,353 |
| April | 1,200,325 | 885,167 | 278,957 | 1,998 | 34,202 |
| May | 1,280,487 | 943,332 | 299,483 | 2,183 | 35,489 |
| June | 1,479,322 | 1,096,663 | 346,260 | 2,137 | 34,262 |
| July | 1,633,462 | 1,195,369 | 399,343 | 2,118 | 36,631 |
| August | 1,601,870 | 1,196,057 | 368,224 | 2,110 | 35,478 |
| September | 1,424,061 | 1,037,738 | 350,880 | 1,985 | 33,458 |
| October | 1,295,294 | 956,093 | 301,876 | 1,813 | 35,512 |
| November | 1,298,109 | 963,935 | 294,943 | 2,287 | 36,945 |
| December | 1,511,026 | 1,100,190 | 369,950 | 2,657 | 38,229 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.2.A. Petroleum Liquids: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Thousand Barrels)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 175,136 | 105,319 | 61,420 | 882 | 7,514 |
| 2004 | 165,107 | 103,793 | 56,342 | 760 | 4,212 |
| 2005 | 165,137 | 98,223 | 62,154 | 580 | 4,180 |
| 2006 | 73,821 | 53,529 | 17,179 | 327 | 2,786 |
| 2007 | 82,433 | 56,910 | 22,793 | 250 | 2,480 |
| 2008 | 53,846 | 38,995 | 13,152 | 160 | 1,538 |
| 2009 | 43,562 | 31,847 | 9,880 | 184 | 1,652 |
| 2010 | 40,103 | 30,806 | 8,278 | 164 | 855 |
| 2011 | 27,326 | 20,844 | 5,633 | 133 | 716 |
| 2012 | 22,604 | 17,521 | 4,110 | 272 | 702 |
| 2013 | 23,231 | 16,827 | 5,494 | 328 | 582 |
| 2011 | | | | | |
| January | 3,325 | 2,207 | 1,005 | 26 | 87 |
| February | 2,077 | 1,590 | 400 | 16 | 72 |
| March | 2,160 | 1,737 | 351 | 10 | 63 |
| April | 2,450 | 2,091 | 296 | 5 | 57 |
| May | 2,291 | 1,886 | 347 | 5 | 52 |
| June | 2,355 | 1,745 | 553 | 5 | 53 |
| July | 2,926 | 1,906 | 958 | 14 | 49 |
| August | 2,290 | 1,749 | 480 | 12 | 49 |
| September | 1,834 | 1,427 | 342 | 13 | 52 |
| October | 1,835 | 1,481 | 280 | 10 | 64 |
| November | 1,832 | 1,488 | 278 | 10 | 55 |
| December | 1,952 | 1,539 | 343 | 8 | 62 |
| 2012 | | | | | |
| January | 1,933 | 1,495 | 317 | 28 | 93 |
| February | 1,544 | 1,245 | 218 | 18 | 64 |
| March | 1,629 | 1,360 | 188 | 16 | 65 |
| April | 1,612 | 1,339 | 204 | 17 | 52 |
| May | 1,864 | 1,441 | 341 | 25 | 57 |
| June | 2,320 | 1,733 | 519 | 24 | 44 |
| July | 2,683 | 2,032 | 568 | 32 | 51 |
| August | 2,014 | 1,597 | 338 | 27 | 52 |
| September | 1,591 | 1,279 | 242 | 18 | 51 |
| October | 1,722 | 1,372 | 265 | 21 | 64 |
| November | 1,648 | 1,282 | 294 | 23 | 48 |
| December | 2,045 | 1,345 | 617 | 23 | 60 |
| 2013 | | | | | |
| January | 2,962 | 1,809 | 1,036 | 47 | 69 |
| February | 1,890 | 1,279 | 526 | 35 | 51 |
| March | 1,639 | 1,334 | 232 | 24 | 50 |
| April | 1,685 | 1,335 | 282 | 24 | 43 |
| May | 1,789 | 1,419 | 294 | 20 | 55 |
| June | 1,699 | 1,321 | 319 | 18 | 41 |
| July | 2,546 | 1,732 | 740 | 31 | 43 |
| August | 1,776 | 1,402 | 306 | 26 | 41 |
| September | 1,591 | 1,170 | 361 | 19 | 40 |
| October | 1,581 | 1,247 | 270 | 21 | 44 |
| November | 1,657 | 1,305 | 282 | 24 | 46 |
| December | 2,416 | 1,473 | 848 | 38 | 57 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.2.B. Petroleum Liquids: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Thousand Barrels)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 14,124 | 0 | 1,197 | 512 | 12,414 |
| 2004 | 20,654 | 0 | 1,501 | 1,203 | 17,951 |
| 2005 | 20,494 | 0 | 1,392 | 1,004 | 18,097 |
| 2006 | 14,077 | 0 | 1,153 | 559 | 12,365 |
| 2007 | 13,462 | 0 | 1,303 | 441 | 11,718 |
| 2008 | 7,533 | 0 | 1,311 | 461 | 5,762 |
| 2009 | 8,128 | 0 | 1,301 | 293 | 6,534 |
| 2010 | 4,866 | 0 | 1,086 | 212 | 3,567 |
| 2011 | 3,826 | 0 | 1,004 | 168 | 2,654 |
| 2012 | 3,097 | 0 | 992 | 122 | 1,984 |
| 2013 | 3,456 | 0 | 1,050 | 498 | 1,908 |
| 2011 | | | | | |
| January | 538 | 0 | 94 | 69 | 375 |
| February | 370 | 0 | 72 | 26 | 272 |
| March | 333 | 0 | 75 | 9 | 249 |
| April | 287 | 0 | 83 | 3 | 201 |
| May | 287 | 0 | 82 | 7 | 198 |
| June | 286 | 0 | 82 | 4 | 200 |
| July | 272 | 0 | 87 | 8 | 176 |
| August | 284 | 0 | 92 | 8 | 184 |
| September | 280 | 0 | 89 | 11 | 180 |
| October | 311 | 0 | 87 | 5 | 219 |
| November | 293 | 0 | 83 | 14 | 195 |
| December | 286 | 0 | 76 | 3 | 207 |
| 2012 | | | | | |
| January | 554 | 0 | 117 | 51 | 386 |
| February | 242 | 0 | 81 | 4 | 158 |
| March | 267 | 0 | 53 | 8 | 207 |
| April | 211 | 0 | 66 | 2 | 144 |
| May | 229 | 0 | 86 | 2 | 141 |
| June | 215 | 0 | 90 | 4 | 121 |
| July | 222 | 0 | 82 | 23 | 117 |
| August | 221 | 0 | 82 | 7 | 132 |
| September | 194 | 0 | 79 | 2 | 112 |
| October | 271 | 0 | 87 | 2 | 182 |
| November | 228 | 0 | 84 | 8 | 135 |
| December | 242 | 0 | 85 | 8 | 149 |
| 2013 | | | | | |
| January | 473 | 0 | 63 | 214 | 196 |
| February | 311 | 0 | 79 | 55 | 178 |
| March | 235 | 0 | 89 | 3 | 143 |
| April | 245 | 0 | 89 | 3 | 153 |
| May | 248 | 0 | 92 | 7 | 149 |
| June | 230 | 0 | 86 | 6 | 139 |
| July | 220 | 0 | 90 | 13 | 117 |
| August | 209 | 0 | 90 | 5 | 114 |
| September | 203 | 0 | 94 | 3 | 106 |
| October | 229 | 0 | 99 | 10 | 120 |
| November | 234 | 0 | 88 | 12 | 134 |
| December | 619 | 0 | 92 | 167 | 360 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Thousand Barrels)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 189,260 | 105,319 | 62,617 | 1,394 | 19,929 |
| 2004 | 185,761 | 103,793 | 57,843 | 1,963 | 22,162 |
| 2005 | 185,631 | 98,223 | 63,546 | 1,584 | 22,278 |
| 2006 | 87,898 | 53,529 | 18,332 | 886 | 15,150 |
| 2007 | 95,895 | 56,910 | 24,097 | 691 | 14,198 |
| 2008 | 61,379 | 38,995 | 14,463 | 621 | 7,300 |
| 2009 | 51,690 | 31,847 | 11,181 | 477 | 8,185 |
| 2010 | 44,968 | 30,806 | 9,364 | 376 | 4,422 |
| 2011 | 31,152 | 20,844 | 6,637 | 301 | 3,370 |
| 2012 | 25,702 | 17,521 | 5,102 | 394 | 2,685 |
| 2013 | 26,687 | 16,827 | 6,544 | 826 | 2,490 |
| 2011 | | | | | |
| January | 3,863 | 2,207 | 1,099 | 95 | 462 |
| February | 2,447 | 1,590 | 472 | 42 | 343 |
| March | 2,493 | 1,737 | 425 | 19 | 312 |
| April | 2,736 | 2,091 | 380 | 8 | 258 |
| May | 2,578 | 1,886 | 430 | 12 | 250 |
| June | 2,642 | 1,745 | 636 | 9 | 253 |
| July | 3,198 | 1,906 | 1,045 | 23 | 225 |
| August | 2,573 | 1,749 | 572 | 20 | 233 |
| September | 2,114 | 1,427 | 431 | 23 | 232 |
| October | 2,145 | 1,481 | 367 | 14 | 283 |
| November | 2,124 | 1,488 | 361 | 24 | 251 |
| December | 2,238 | 1,539 | 419 | 11 | 269 |
| 2012 | | | | | |
| January | 2,487 | 1,495 | 433 | 79 | 479 |
| February | 1,787 | 1,245 | 299 | 22 | 222 |
| March | 1,897 | 1,360 | 241 | 24 | 272 |
| April | 1,824 | 1,339 | 270 | 18 | 196 |
| May | 2,093 | 1,441 | 427 | 27 | 198 |
| June | 2,534 | 1,733 | 608 | 28 | 165 |
| July | 2,905 | 2,032 | 650 | 55 | 167 |
| August | 2,236 | 1,597 | 421 | 34 | 184 |
| September | 1,784 | 1,279 | 322 | 20 | 163 |
| October | 1,993 | 1,372 | 351 | 23 | 246 |
| November | 1,875 | 1,282 | 378 | 32 | 184 |
| December | 2,287 | 1,345 | 702 | 31 | 209 |
| 2013 | | | | | |
| January | 3,435 | 1,809 | 1,099 | 261 | 265 |
| February | 2,202 | 1,279 | 604 | 90 | 229 |
| March | 1,874 | 1,334 | 321 | 27 | 193 |
| April | 1,930 | 1,335 | 371 | 27 | 196 |
| May | 2,037 | 1,419 | 386 | 27 | 204 |
| June | 1,929 | 1,321 | 405 | 24 | 179 |
| July | 2,766 | 1,732 | 829 | 44 | 160 |
| August | 1,985 | 1,402 | 396 | 32 | 155 |
| September | 1,794 | 1,170 | 455 | 22 | 146 |
| October | 1,810 | 1,247 | 369 | 31 | 164 |
| November | 1,891 | 1,305 | 369 | 36 | 181 |
| December | 3,035 | 1,473 | 940 | 205 | 417 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.2.D. Petroleum Liquids: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 1,089,307 | 658,868 | 380,378 | 5,358 | 44,702 |
| 2004 | 1,031,954 | 651,712 | 350,093 | 4,544 | 25,606 |
| 2005 | 1,035,045 | 618,811 | 387,355 | 3,469 | 25,410 |
| 2006 | 459,392 | 335,130 | 105,312 | 1,963 | 16,987 |
| 2007 | 512,423 | 355,999 | 139,977 | 1,505 | 14,942 |
| 2008 | 332,367 | 242,379 | 79,816 | 957 | 9,215 |
| 2009 | 266,508 | 196,346 | 59,277 | 1,101 | 9,784 |
| 2010 | 244,114 | 188,987 | 49,042 | 970 | 5,115 |
| 2011 | 163,954 | 125,755 | 33,166 | 801 | 4,233 |
| 2012 | 134,956 | 105,179 | 24,081 | 1,618 | 4,078 |
| 2013 | 139,139 | 101,217 | 32,504 | 2,038 | 3,380 |
| 2011 | | | | | |
| January | 20,010 | 13,314 | 6,015 | 160 | 521 |
| February | 12,446 | 9,595 | 2,331 | 95 | 425 |
| March | 12,977 | 10,490 | 2,054 | 57 | 376 |
| April | 14,715 | 12,631 | 1,713 | 32 | 340 |
| May | 13,840 | 11,454 | 2,050 | 29 | 307 |
| June | 14,196 | 10,558 | 3,296 | 28 | 313 |
| July | 17,692 | 11,583 | 5,739 | 86 | 284 |
| August | 13,843 | 10,674 | 2,810 | 72 | 286 |
| September | 10,910 | 8,569 | 1,960 | 76 | 305 |
| October | 10,891 | 8,840 | 1,613 | 57 | 381 |
| November | 10,872 | 8,879 | 1,605 | 61 | 326 |
| December | 11,562 | 9,169 | 1,978 | 47 | 368 |
| 2012 | | | | | |
| January | 11,656 | 9,046 | 1,892 | 167 | 551 |
| February | 9,260 | 7,500 | 1,282 | 106 | 372 |
| March | 9,708 | 8,119 | 1,111 | 97 | 380 |
| April | 9,570 | 7,972 | 1,196 | 98 | 304 |
| May | 11,111 | 8,649 | 1,979 | 148 | 335 |
| June | 13,900 | 10,391 | 3,117 | 141 | 251 |
| July | 16,184 | 12,289 | 3,412 | 190 | 293 |
| August | 12,079 | 9,621 | 2,001 | 159 | 298 |
| September | 9,471 | 7,653 | 1,416 | 106 | 297 |
| October | 10,239 | 8,185 | 1,552 | 127 | 376 |
| November | 9,855 | 7,694 | 1,743 | 139 | 279 |
| December | 11,923 | 8,060 | 3,380 | 139 | 343 |
| 2013 | | | | | |
| January | 17,827 | 10,919 | 6,205 | 295 | 408 |
| February | 11,312 | 7,630 | 3,161 | 219 | 302 |
| March | 9,826 | 8,042 | 1,344 | 148 | 292 |
| April | 10,063 | 8,024 | 1,639 | 149 | 252 |
| May | 10,659 | 8,502 | 1,716 | 125 | 317 |
| June | 10,195 | 7,967 | 1,880 | 112 | 236 |
| July | 15,284 | 10,417 | 4,430 | 190 | 247 |
| August | 10,630 | 8,488 | 1,739 | 164 | 238 |
| September | 9,514 | 7,058 | 2,105 | 118 | 233 |
| October | 9,466 | 7,532 | 1,550 | 130 | 255 |
| November | 9,876 | 7,826 | 1,630 | 151 | 270 |
| December | 14,487 | 8,812 | 5,107 | 236 | 332 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.2.E. Petroleum Liquids: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 85,488 | 0 | 6,963 | 3,176 | 75,349 |
| 2004 | 124,809 | 0 | 8,592 | 7,219 | 108,997 |
| 2005 | 125,689 | 0 | 8,134 | 6,145 | 111,410 |
| 2006 | 87,137 | 0 | 6,740 | 3,481 | 76,916 |
| 2007 | 82,768 | 0 | 7,602 | 2,754 | 72,412 |
| 2008 | 45,481 | 0 | 7,644 | 2,786 | 35,051 |
| 2009 | 48,912 | 0 | 7,557 | 1,802 | 39,552 |
| 2010 | 29,243 | 0 | 6,402 | 1,297 | 21,545 |
| 2011 | 22,799 | 0 | 5,927 | 1,039 | 15,833 |
| 2012 | 18,233 | 0 | 5,871 | 746 | 11,616 |
| 2013 | 20,717 | 0 | 6,176 | 3,292 | 11,248 |
| 2011 | | | | | |
| January | 3,261 | 0 | 554 | 434 | 2,273 |
| February | 2,197 | 0 | 415 | 169 | 1,613 |
| March | 1,988 | 0 | 443 | 56 | 1,490 |
| April | 1,702 | 0 | 495 | 16 | 1,191 |
| May | 1,704 | 0 | 489 | 42 | 1,173 |
| June | 1,706 | 0 | 489 | 23 | 1,193 |
| July | 1,614 | 0 | 517 | 53 | 1,045 |
| August | 1,680 | 0 | 543 | 47 | 1,090 |
| September | 1,656 | 0 | 527 | 65 | 1,063 |
| October | 1,849 | 0 | 515 | 29 | 1,304 |
| November | 1,736 | 0 | 490 | 86 | 1,160 |
| December | 1,708 | 0 | 452 | 20 | 1,236 |
| 2012 | | | | | |
| January | 3,326 | 0 | 697 | 315 | 2,313 |
| February | 1,422 | 0 | 479 | 24 | 919 |
| March | 1,564 | 0 | 315 | 49 | 1,200 |
| April | 1,234 | 0 | 388 | 11 | 835 |
| May | 1,345 | 0 | 510 | 14 | 821 |
| June | 1,256 | 0 | 530 | 24 | 702 |
| July | 1,304 | 0 | 482 | 146 | 676 |
| August | 1,302 | 0 | 489 | 42 | 771 |
| September | 1,135 | 0 | 468 | 14 | 653 |
| October | 1,600 | 0 | 511 | 11 | 1,077 |
| November | 1,338 | 0 | 498 | 48 | 792 |
| December | 1,408 | 0 | 505 | 46 | 857 |
| 2013 | | | | | |
| January | 2,962 | 0 | 373 | 1,437 | 1,151 |
| February | 1,884 | 0 | 464 | 356 | 1,064 |
| March | 1,379 | 0 | 524 | 19 | 835 |
| April | 1,448 | 0 | 528 | 18 | 902 |
| May | 1,464 | 0 | 548 | 38 | 878 |
| June | 1,359 | 0 | 506 | 36 | 818 |
| July | 1,294 | 0 | 530 | 82 | 682 |
| August | 1,221 | 0 | 524 | 34 | 663 |
| September | 1,179 | 0 | 542 | 19 | 618 |
| October | 1,350 | 0 | 581 | 64 | 705 |
| November | 1,379 | 0 | 515 | 75 | 789 |
| December | 3,798 | 0 | 541 | 1,114 | 2,143 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.2.F. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 1,174,795 | 658,868 | 387,341 | 8,534 | 120,051 |
| 2004 | 1,156,763 | 651,712 | 358,685 | 11,763 | 134,603 |
| 2005 | 1,160,733 | 618,811 | 395,489 | 9,614 | 136,820 |
| 2006 | 546,529 | 335,130 | 112,052 | 5,444 | 93,903 |
| 2007 | 595,191 | 355,999 | 147,579 | 4,259 | 87,354 |
| 2008 | 377,848 | 242,379 | 87,460 | 3,743 | 44,266 |
| 2009 | 315,420 | 196,346 | 66,834 | 2,903 | 49,336 |
| 2010 | 273,357 | 188,987 | 55,444 | 2,267 | 26,660 |
| 2011 | 186,753 | 125,755 | 39,093 | 1,840 | 20,066 |
| 2012 | 153,189 | 105,179 | 29,952 | 2,364 | 15,695 |
| 2013 | 159,855 | 101,217 | 38,681 | 5,330 | 14,628 |
| 2011 | | | | | |
| January | 23,271 | 13,314 | 6,569 | 594 | 2,794 |
| February | 14,643 | 9,595 | 2,746 | 264 | 2,038 |
| March | 14,965 | 10,490 | 2,497 | 113 | 1,866 |
| April | 16,417 | 12,631 | 2,208 | 47 | 1,531 |
| May | 15,544 | 11,454 | 2,539 | 71 | 1,480 |
| June | 15,901 | 10,558 | 3,785 | 52 | 1,507 |
| July | 19,306 | 11,583 | 6,256 | 138 | 1,329 |
| August | 15,522 | 10,674 | 3,353 | 119 | 1,376 |
| September | 12,566 | 8,569 | 2,487 | 142 | 1,369 |
| October | 12,740 | 8,840 | 2,128 | 86 | 1,685 |
| November | 12,608 | 8,879 | 2,095 | 148 | 1,487 |
| December | 13,269 | 9,169 | 2,429 | 67 | 1,605 |
| 2012 | | | | | |
| January | 14,982 | 9,046 | 2,589 | 483 | 2,864 |
| February | 10,682 | 7,500 | 1,761 | 131 | 1,291 |
| March | 11,271 | 8,119 | 1,425 | 146 | 1,580 |
| April | 10,803 | 7,972 | 1,584 | 109 | 1,139 |
| May | 12,456 | 8,649 | 2,489 | 162 | 1,156 |
| June | 15,156 | 10,391 | 3,647 | 165 | 952 |
| July | 17,488 | 12,289 | 3,893 | 337 | 969 |
| August | 13,381 | 9,621 | 2,490 | 201 | 1,069 |
| September | 10,606 | 7,653 | 1,883 | 120 | 950 |
| October | 11,839 | 8,185 | 2,064 | 138 | 1,453 |
| November | 11,194 | 7,694 | 2,241 | 187 | 1,071 |
| December | 13,330 | 8,060 | 3,885 | 185 | 1,200 |
| 2013 | | | | | |
| January | 20,788 | 10,919 | 6,578 | 1,732 | 1,559 |
| February | 13,197 | 7,630 | 3,625 | 576 | 1,366 |
| March | 11,204 | 8,042 | 1,868 | 167 | 1,127 |
| April | 11,512 | 8,024 | 2,167 | 167 | 1,154 |
| May | 12,123 | 8,502 | 2,264 | 163 | 1,194 |
| June | 11,554 | 7,967 | 2,385 | 148 | 1,054 |
| July | 16,577 | 10,417 | 4,960 | 271 | 929 |
| August | 11,850 | 8,488 | 2,263 | 198 | 901 |
| September | 10,693 | 7,058 | 2,646 | 138 | 851 |
| October | 10,817 | 7,532 | 2,131 | 194 | 960 |
| November | 11,255 | 7,826 | 2,145 | 226 | 1,059 |
| December | 18,285 | 8,812 | 5,648 | 1,350 | 2,475 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Thousand Tons)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 6,303 | 2,554 | 3,166 | 2 | 582 |
| 2004 | 7,677 | 4,150 | 2,985 | 1 | 541 |
| 2005 | 8,330 | 4,130 | 3,746 | 1 | 452 |
| 2006 | 7,363 | 3,619 | 3,286 | 1 | 456 |
| 2007 | 6,036 | 2,808 | 2,715 | 2 | 512 |
| 2008 | 5,417 | 2,296 | 2,704 | 1 | 416 |
| 2009 | 4,821 | 2,761 | 1,724 | 1 | 335 |
| 2010 | 4,994 | 3,325 | 1,354 | 2 | 313 |
| 2011 | 5,012 | 3,449 | 1,277 | 1 | 286 |
| 2012 | 3,675 | 2,105 | 756 | 1 | 812 |
| 2013 | 4,852 | 3,409 | 779 | 1 | 662 |
| 2011 | | | | | |
| January | 552 | 400 | 124 | 0 | 28 |
| February | 431 | 295 | 114 | 0 | 22 |
| March | 517 | 344 | 151 | 0 | 22 |
| April | 336 | 218 | 94 | 0 | 24 |
| May | 357 | 232 | 101 | 0 | 24 |
| June | 432 | 302 | 107 | 0 | 22 |
| July | 510 | 359 | 131 | 0 | 19 |
| August | 464 | 330 | 110 | 0 | 24 |
| September | 454 | 333 | 95 | 0 | 26 |
| October | 338 | 229 | 83 | 0 | 25 |
| November | 257 | 155 | 77 | 0 | 25 |
| December | 365 | 252 | 88 | 0 | 25 |
| 2012 | | | | | |
| January | 476 | 297 | 92 | 0 | 87 |
| February | 363 | 230 | 77 | 0 | 56 |
| March | 226 | 107 | 61 | 0 | 58 |
| April | 212 | 120 | 37 | 0 | 55 |
| May | 255 | 150 | 51 | 0 | 55 |
| June | 280 | 169 | 53 | 0 | 58 |
| July | 307 | 182 | 62 | 0 | 63 |
| August | 338 | 170 | 87 | 0 | 80 |
| September | 314 | 180 | 61 | 0 | 73 |
| October | 280 | 156 | 64 | 0 | 60 |
| November | 314 | 175 | 55 | 0 | 84 |
| December | 308 | 170 | 56 | 0 | 82 |
| 2013 | | | | | |
| January | 385 | 253 | 67 | 0 | 65 |
| February | 314 | 220 | 62 | 0 | 32 |
| March | 364 | 236 | 67 | 0 | 60 |
| April | 342 | 217 | 62 | 0 | 63 |
| May | 469 | 361 | 41 | 0 | 68 |
| June | 476 | 348 | 63 | 0 | 66 |
| July | 474 | 337 | 72 | 0 | 65 |
| August | 491 | 332 | 93 | 0 | 66 |
| September | 442 | 326 | 60 | 0 | 57 |
| October | 404 | 289 | 64 | 0 | 51 |
| November | 308 | 217 | 60 | 0 | 30 |
| December | 381 | 272 | 69 | 0 | 39 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Thousand Tons)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 763 | 0 | 80 | 9 | 675 |
| 2004 | 1,043 | 0 | 237 | 8 | 798 |
| 2005 | 783 | 0 | 206 | 8 | 568 |
| 2006 | 1,259 | 0 | 195 | 9 | 1,055 |
| 2007 | 1,262 | 0 | 162 | 11 | 1,090 |
| 2008 | 897 | 0 | 119 | 9 | 769 |
| 2009 | 1,007 | 0 | 126 | 8 | 873 |
| 2010 | 1,059 | 0 | 98 | 11 | 950 |
| 2011 | 1,080 | 0 | 112 | 6 | 962 |
| 2012 | 1,346 | 0 | 113 | 11 | 1,222 |
| 2013 | 1,486 | 0 | 96 | 11 | 1,379 |
| 2011 | | | | | |
| January | 93 | 0 | 5 | 1 | 86 |
| February | 90 | 0 | 9 | 1 | 81 |
| March | 85 | 0 | 11 | 1 | 73 |
| April | 92 | 0 | 9 | 0 | 83 |
| May | 95 | 0 | 11 | 0 | 84 |
| June | 89 | 0 | 9 | 0 | 80 |
| July | 89 | 0 | 11 | 0 | 79 |
| August | 81 | 0 | 11 | 0 | 70 |
| September | 90 | 0 | 10 | 0 | 80 |
| October | 91 | 0 | 7 | 0 | 84 |
| November | 88 | 0 | 9 | 1 | 79 |
| December | 95 | 0 | 10 | 1 | 84 |
| 2012 | | | | | |
| January | 128 | 0 | 11 | 1 | 116 |
| February | 108 | 0 | 11 | 1 | 96 |
| March | 108 | 0 | 10 | 1 | 97 |
| April | 87 | 0 | 9 | 0 | 78 |
| May | 91 | 0 | 11 | 0 | 80 |
| June | 100 | 0 | 6 | 0 | 94 |
| July | 118 | 0 | 9 | 1 | 108 |
| August | 133 | 0 | 10 | 1 | 122 |
| September | 116 | 0 | 9 | 1 | 105 |
| October | 117 | 0 | 9 | 1 | 107 |
| November | 122 | 0 | 9 | 1 | 112 |
| December | 118 | 0 | 10 | 1 | 107 |
| 2013 | | | | | |
| January | 137 | 0 | 9 | 2 | 127 |
| February | 103 | 0 | 7 | 1 | 94 |
| March | 129 | 0 | 9 | 1 | 119 |
| April | 114 | 0 | 9 | 0 | 105 |
| May | 130 | 0 | 8 | 0 | 123 |
| June | 130 | 0 | 5 | 0 | 125 |
| July | 140 | 0 | 9 | 0 | 132 |
| August | 162 | 0 | 8 | 1 | 152 |
| September | 115 | 0 | 7 | 1 | 107 |
| October | 118 | 0 | 9 | 1 | 108 |
| November | 92 | 0 | 8 | 1 | 83 |
| December | 115 | 0 | 9 | 1 | 105 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Thousand Tons)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 7,067 | 2,554 | 3,245 | 11 | 1,257 |
| 2004 | 8,721 | 4,150 | 3,223 | 9 | 1,339 |
| 2005 | 9,113 | 4,130 | 3,953 | 9 | 1,020 |
| 2006 | 8,622 | 3,619 | 3,482 | 10 | 1,511 |
| 2007 | 7,299 | 2,808 | 2,877 | 12 | 1,602 |
| 2008 | 6,314 | 2,296 | 2,823 | 10 | 1,184 |
| 2009 | 5,828 | 2,761 | 1,850 | 9 | 1,209 |
| 2010 | 6,053 | 3,325 | 1,452 | 12 | 1,264 |
| 2011 | 6,092 | 3,449 | 1,388 | 6 | 1,248 |
| 2012 | 5,021 | 2,105 | 869 | 13 | 2,034 |
| 2013 | 6,338 | 3,409 | 875 | 12 | 2,041 |
| 2011 | | | | | |
| January | 645 | 400 | 129 | 1 | 114 |
| February | 521 | 295 | 122 | 1 | 102 |
| March | 603 | 344 | 162 | 1 | 95 |
| April | 428 | 218 | 103 | 0 | 107 |
| May | 452 | 232 | 112 | 0 | 108 |
| June | 521 | 302 | 117 | 0 | 102 |
| July | 599 | 359 | 142 | 0 | 98 |
| August | 545 | 330 | 121 | 0 | 94 |
| September | 545 | 333 | 105 | 0 | 106 |
| October | 429 | 229 | 90 | 0 | 109 |
| November | 345 | 155 | 86 | 1 | 103 |
| December | 460 | 252 | 98 | 2 | 109 |
| 2012 | | | | | |
| January | 605 | 297 | 103 | 2 | 203 |
| February | 470 | 230 | 88 | 1 | 152 |
| March | 335 | 107 | 72 | 1 | 155 |
| April | 299 | 120 | 46 | 0 | 133 |
| May | 346 | 150 | 61 | 0 | 135 |
| June | 380 | 169 | 59 | 0 | 152 |
| July | 426 | 182 | 72 | 1 | 171 |
| August | 471 | 170 | 97 | 1 | 203 |
| September | 430 | 180 | 70 | 1 | 178 |
| October | 397 | 156 | 73 | 1 | 167 |
| November | 435 | 175 | 63 | 1 | 196 |
| December | 426 | 170 | 66 | 1 | 188 |
| 2013 | | | | | |
| January | 522 | 253 | 76 | 2 | 191 |
| February | 416 | 220 | 69 | 2 | 126 |
| March | 493 | 236 | 76 | 2 | 180 |
| April | 456 | 217 | 71 | 0 | 168 |
| May | 600 | 361 | 48 | 0 | 191 |
| June | 606 | 348 | 68 | 0 | 191 |
| July | 614 | 337 | 80 | 0 | 197 |
| August | 653 | 332 | 101 | 2 | 218 |
| September | 558 | 326 | 67 | 1 | 164 |
| October | 522 | 289 | 73 | 1 | 158 |
| November | 400 | 217 | 68 | 1 | 114 |
| December | 496 | 272 | 78 | 2 | 144 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.3.D. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 176,657 | 69,695 | 90,102 | 65 | 16,796 |
| 2004 | 216,047 | 116,086 | 83,979 | 33 | 15,949 |
| 2005 | 234,217 | 115,727 | 105,163 | 33 | 13,295 |
| 2006 | 208,518 | 102,117 | 92,643 | 33 | 13,726 |
| 2007 | 170,166 | 77,941 | 77,135 | 45 | 15,045 |
| 2008 | 152,933 | 64,843 | 76,416 | 37 | 11,638 |
| 2009 | 136,474 | 77,919 | 48,776 | 32 | 9,747 |
| 2010 | 141,774 | 94,331 | 38,235 | 44 | 9,165 |
| 2011 | 144,406 | 99,257 | 36,923 | 20 | 8,206 |
| 2012 | 105,488 | 60,862 | 21,643 | 39 | 22,944 |
| 2013 | 138,774 | 97,626 | 22,052 | 38 | 19,058 |
| 2011 | | | | | |
| January | 15,806 | 11,407 | 3,591 | 5 | 802 |
| February | 12,355 | 8,480 | 3,247 | 4 | 624 |
| March | 14,855 | 9,896 | 4,321 | 5 | 633 |
| April | 9,679 | 6,299 | 2,693 | 0 | 686 |
| May | 10,278 | 6,675 | 2,894 | 0 | 709 |
| June | 12,476 | 8,724 | 3,103 | 0 | 649 |
| July | 14,730 | 10,320 | 3,844 | 0 | 565 |
| August | 13,397 | 9,457 | 3,259 | 0 | 681 |
| September | 13,161 | 9,629 | 2,800 | 0 | 732 |
| October | 9,750 | 6,619 | 2,414 | 0 | 717 |
| November | 7,377 | 4,473 | 2,205 | 2 | 697 |
| December | 10,543 | 7,278 | 2,551 | 4 | 710 |
| 2012 | | | | | |
| January | 13,587 | 8,575 | 2,622 | 5 | 2,385 |
| February | 10,411 | 6,655 | 2,212 | 4 | 1,540 |
| March | 6,477 | 3,067 | 1,748 | 4 | 1,659 |
| April | 6,099 | 3,455 | 1,068 | 0 | 1,576 |
| May | 7,347 | 4,327 | 1,464 | 0 | 1,556 |
| June | 8,142 | 4,967 | 1,528 | 0 | 1,647 |
| July | 8,862 | 5,293 | 1,759 | 4 | 1,806 |
| August | 9,726 | 4,939 | 2,498 | 4 | 2,285 |
| September | 9,046 | 5,209 | 1,746 | 4 | 2,087 |
| October | 8,023 | 4,491 | 1,824 | 5 | 1,703 |
| November | 8,977 | 5,008 | 1,569 | 4 | 2,396 |
| December | 8,791 | 4,876 | 1,605 | 4 | 2,306 |
| 2013 | | | | | |
| January | 11,015 | 7,296 | 1,909 | 5 | 1,806 |
| February | 9,000 | 6,373 | 1,737 | 5 | 885 |
| March | 10,473 | 6,823 | 1,887 | 5 | 1,758 |
| April | 9,805 | 6,228 | 1,738 | 1 | 1,837 |
| May | 13,517 | 10,387 | 1,165 | 0 | 1,965 |
| June | 13,631 | 9,956 | 1,774 | 0 | 1,901 |
| July | 13,647 | 9,726 | 2,052 | 0 | 1,868 |
| August | 14,164 | 9,616 | 2,654 | 5 | 1,888 |
| September | 12,723 | 9,379 | 1,709 | 4 | 1,631 |
| October | 11,347 | 8,075 | 1,813 | 4 | 1,455 |
| November | 8,860 | 6,258 | 1,684 | 3 | 915 |
| December | 10,593 | 7,508 | 1,931 | 5 | 1,149 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.3.E. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 21,170 | 0 | 2,282 | 244 | 18,644 |
| 2004 | 29,342 | 0 | 6,768 | 226 | 22,347 |
| 2005 | 22,224 | 0 | 5,935 | 228 | 16,061 |
| 2006 | 38,169 | 0 | 5,672 | 236 | 32,262 |
| 2007 | 38,033 | 0 | 4,710 | 303 | 33,019 |
| 2008 | 27,100 | 0 | 3,441 | 243 | 23,416 |
| 2009 | 29,974 | 0 | 3,652 | 213 | 26,109 |
| 2010 | 31,303 | 0 | 2,855 | 296 | 28,152 |
| 2011 | 31,943 | 0 | 3,244 | 153 | 28,546 |
| 2012 | 38,777 | 0 | 3,281 | 315 | 35,181 |
| 2013 | 40,846 | 0 | 2,769 | 305 | 37,772 |
| 2011 | | | | | |
| January | 2,698 | 0 | 152 | 35 | 2,511 |
| February | 2,661 | 0 | 250 | 29 | 2,383 |
| March | 2,502 | 0 | 317 | 34 | 2,151 |
| April | 2,723 | 0 | 269 | 0 | 2,455 |
| May | 2,806 | 0 | 308 | 0 | 2,499 |
| June | 2,660 | 0 | 273 | 0 | 2,386 |
| July | 2,682 | 0 | 311 | 0 | 2,371 |
| August | 2,420 | 0 | 307 | 0 | 2,113 |
| September | 2,690 | 0 | 301 | 0 | 2,389 |
| October | 2,698 | 0 | 212 | 0 | 2,485 |
| November | 2,601 | 0 | 254 | 16 | 2,331 |
| December | 2,802 | 0 | 292 | 38 | 2,472 |
| 2012 | | | | | |
| January | 3,667 | 0 | 315 | 40 | 3,312 |
| February | 3,132 | 0 | 307 | 34 | 2,791 |
| March | 3,138 | 0 | 304 | 32 | 2,802 |
| April | 2,481 | 0 | 264 | 2 | 2,215 |
| May | 2,628 | 0 | 315 | 0 | 2,313 |
| June | 2,922 | 0 | 160 | 0 | 2,763 |
| July | 3,418 | 0 | 269 | 30 | 3,120 |
| August | 3,816 | 0 | 279 | 36 | 3,502 |
| September | 3,349 | 0 | 274 | 35 | 3,040 |
| October | 3,402 | 0 | 257 | 37 | 3,108 |
| November | 3,480 | 0 | 256 | 33 | 3,191 |
| December | 3,343 | 0 | 283 | 36 | 3,024 |
| 2013 | | | | | |
| January | 3,724 | 0 | 249 | 45 | 3,430 |
| February | 2,852 | 0 | 208 | 40 | 2,604 |
| March | 3,543 | 0 | 257 | 38 | 3,248 |
| April | 3,059 | 0 | 259 | 5 | 2,795 |
| May | 3,572 | 0 | 220 | 0 | 3,352 |
| June | 3,570 | 0 | 148 | 0 | 3,422 |
| July | 3,869 | 0 | 253 | 2 | 3,615 |
| August | 4,398 | 0 | 238 | 38 | 4,121 |
| September | 3,184 | 0 | 191 | 35 | 2,958 |
| October | 3,280 | 0 | 248 | 33 | 2,999 |
| November | 2,584 | 0 | 234 | 28 | 2,321 |
| December | 3,211 | 0 | 264 | 39 | 2,908 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.3.F. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 197,827 | 69,695 | 92,384 | 309 | 35,440 |
| 2004 | 245,389 | 116,086 | 90,747 | 259 | 38,297 |
| 2005 | 256,441 | 115,727 | 111,098 | 260 | 29,356 |
| 2006 | 246,687 | 102,117 | 98,314 | 269 | 45,987 |
| 2007 | 208,198 | 77,941 | 81,845 | 348 | 48,064 |
| 2008 | 180,034 | 64,843 | 79,856 | 280 | 35,055 |
| 2009 | 166,449 | 77,919 | 52,428 | 245 | 35,856 |
| 2010 | 173,078 | 94,331 | 41,090 | 340 | 37,317 |
| 2011 | 176,349 | 99,257 | 40,167 | 173 | 36,752 |
| 2012 | 144,266 | 60,862 | 24,925 | 353 | 58,126 |
| 2013 | 179,621 | 97,626 | 24,821 | 343 | 56,831 |
| 2011 | | | | | |
| January | 18,504 | 11,407 | 3,743 | 40 | 3,313 |
| February | 15,016 | 8,480 | 3,496 | 33 | 3,007 |
| March | 17,356 | 9,896 | 4,638 | 39 | 2,784 |
| April | 12,402 | 6,299 | 2,962 | 0 | 3,141 |
| May | 13,085 | 6,675 | 3,202 | 0 | 3,208 |
| June | 15,135 | 8,724 | 3,376 | 0 | 3,035 |
| July | 17,412 | 10,320 | 4,156 | 0 | 2,936 |
| August | 15,816 | 9,457 | 3,565 | 0 | 2,794 |
| September | 15,851 | 9,629 | 3,101 | 0 | 3,122 |
| October | 12,448 | 6,619 | 2,626 | 0 | 3,203 |
| November | 9,978 | 4,473 | 2,459 | 18 | 3,028 |
| December | 13,345 | 7,278 | 2,843 | 42 | 3,182 |
| 2012 | | | | | |
| January | 17,254 | 8,575 | 2,937 | 45 | 5,697 |
| February | 13,542 | 6,655 | 2,519 | 38 | 4,331 |
| March | 9,615 | 3,067 | 2,051 | 36 | 4,461 |
| April | 8,581 | 3,455 | 1,332 | 2 | 3,791 |
| May | 9,975 | 4,327 | 1,779 | 0 | 3,869 |
| June | 11,064 | 4,967 | 1,688 | 0 | 4,409 |
| July | 12,280 | 5,293 | 2,028 | 34 | 4,925 |
| August | 13,543 | 4,939 | 2,777 | 40 | 5,787 |
| September | 12,395 | 5,209 | 2,020 | 39 | 5,127 |
| October | 11,425 | 4,491 | 2,081 | 41 | 4,811 |
| November | 12,457 | 5,008 | 1,825 | 37 | 5,587 |
| December | 12,134 | 4,876 | 1,888 | 40 | 5,330 |
| 2013 | | | | | |
| January | 14,739 | 7,296 | 2,158 | 50 | 5,236 |
| February | 11,852 | 6,373 | 1,945 | 45 | 3,489 |
| March | 14,016 | 6,823 | 2,144 | 43 | 5,006 |
| April | 12,864 | 6,228 | 1,998 | 6 | 4,632 |
| May | 17,089 | 10,387 | 1,385 | 0 | 5,317 |
| June | 17,201 | 9,956 | 1,922 | 0 | 5,323 |
| July | 17,517 | 9,726 | 2,305 | 3 | 5,483 |
| August | 18,561 | 9,616 | 2,892 | 44 | 6,010 |
| September | 15,907 | 9,379 | 1,899 | 39 | 4,589 |
| October | 14,628 | 8,075 | 2,061 | 38 | 4,454 |
| November | 11,444 | 6,258 | 1,918 | 32 | 3,236 |
| December | 13,804 | 7,508 | 2,195 | 44 | 4,057 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Million Cubic Feet)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 5,616,135 | 1,763,764 | 3,145,485 | 38,480 | 668,407 |
| 2004 | 5,674,580 | 1,809,443 | 3,265,896 | 32,839 | 566,401 |
| 2005 | 6,036,370 | 2,134,859 | 3,349,921 | 33,785 | 517,805 |
| 2006 | 6,461,615 | 2,478,396 | 3,412,826 | 34,623 | 535,770 |
| 2007 | 7,089,342 | 2,736,418 | 3,765,194 | 34,087 | 553,643 |
| 2008 | 6,895,843 | 2,730,134 | 3,612,197 | 33,403 | 520,109 |
| 2009 | 7,121,069 | 2,911,279 | 3,655,712 | 34,279 | 519,799 |
| 2010 | 7,680,185 | 3,290,993 | 3,794,423 | 39,462 | 555,307 |
| 2011 | 7,883,865 | 3,446,087 | 3,819,107 | 47,170 | 571,501 |
| 2012 | 9,484,710 | 4,101,927 | 4,686,260 | 63,116 | 633,407 |
| 2013 | 8,596,299 | 3,970,447 | 3,917,131 | 66,570 | 642,152 |
| 2011 | | | | | |
| January | 563,712 | 238,731 | 273,552 | 3,518 | 47,910 |
| February | 505,126 | 208,813 | 250,551 | 3,069 | 42,692 |
| March | 503,090 | 217,538 | 239,429 | 3,169 | 42,953 |
| April | 545,924 | 243,866 | 253,900 | 3,062 | 45,096 |
| May | 598,689 | 268,818 | 279,002 | 4,043 | 46,826 |
| June | 727,189 | 330,305 | 344,944 | 3,957 | 47,982 |
| July | 967,125 | 430,187 | 478,936 | 5,316 | 52,686 |
| August | 951,425 | 421,042 | 471,544 | 5,001 | 53,838 |
| September | 711,980 | 306,699 | 352,213 | 4,290 | 48,779 |
| October | 599,544 | 266,740 | 284,312 | 3,727 | 44,764 |
| November | 568,007 | 242,306 | 275,414 | 3,709 | 46,579 |
| December | 642,055 | 271,041 | 315,311 | 4,309 | 51,394 |
| 2012 | | | | | |
| January | 677,117 | 285,194 | 335,785 | 5,065 | 51,072 |
| February | 672,278 | 274,977 | 343,616 | 4,955 | 48,730 |
| March | 703,533 | 295,548 | 354,510 | 5,129 | 48,345 |
| April | 741,560 | 321,202 | 367,445 | 5,044 | 47,869 |
| May | 843,383 | 376,968 | 407,974 | 5,263 | 53,180 |
| June | 912,469 | 403,071 | 448,815 | 5,838 | 54,745 |
| July | 1,118,369 | 492,043 | 559,652 | 7,312 | 59,363 |
| August | 1,038,691 | 447,137 | 526,648 | 5,924 | 58,982 |
| September | 835,109 | 358,829 | 417,952 | 5,014 | 53,314 |
| October | 700,348 | 304,811 | 339,272 | 4,621 | 51,645 |
| November | 611,680 | 265,122 | 290,769 | 4,472 | 51,317 |
| December | 630,173 | 277,026 | 293,821 | 4,479 | 54,847 |
| 2013 | | | | | |
| January | 666,650 | 310,174 | 296,071 | 5,247 | 55,159 |
| February | 599,100 | 278,139 | 266,731 | 4,807 | 49,424 |
| March | 637,349 | 293,545 | 285,259 | 5,365 | 53,180 |
| April | 595,667 | 268,467 | 272,544 | 5,095 | 49,562 |
| May | 646,296 | 295,973 | 294,795 | 5,160 | 50,369 |
| June | 771,868 | 363,204 | 349,597 | 5,582 | 53,485 |
| July | 949,141 | 432,493 | 451,078 | 7,169 | 58,401 |
| August | 937,197 | 442,939 | 430,139 | 6,449 | 57,671 |
| September | 784,619 | 365,005 | 361,481 | 6,005 | 52,128 |
| October | 669,764 | 312,216 | 300,858 | 4,993 | 51,697 |
| November | 633,885 | 284,526 | 291,241 | 4,881 | 53,237 |
| December | 704,762 | 323,768 | 317,338 | 5,817 | 57,840 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Million Cubic Feet)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 721,267 | 0 | 225,967 | 19,973 | 475,327 |
| 2004 | 1,052,100 | 0 | 388,424 | 39,233 | 624,443 |
| 2005 | 984,340 | 0 | 384,365 | 34,172 | 565,803 |
| 2006 | 942,817 | 0 | 330,878 | 33,112 | 578,828 |
| 2007 | 872,579 | 0 | 339,796 | 35,987 | 496,796 |
| 2008 | 793,537 | 0 | 326,048 | 32,813 | 434,676 |
| 2009 | 816,787 | 0 | 305,542 | 41,275 | 469,970 |
| 2010 | 821,775 | 0 | 301,769 | 46,324 | 473,683 |
| 2011 | 839,681 | 0 | 308,669 | 39,856 | 491,155 |
| 2012 | 886,103 | 0 | 322,607 | 47,883 | 515,613 |
| 2013 | 882,385 | 0 | 303,177 | 51,057 | 528,151 |
| 2011 | | | | | |
| January | 72,765 | 0 | 27,509 | 3,590 | 41,667 |
| February | 65,092 | 0 | 24,322 | 2,962 | 37,808 |
| March | 66,500 | 0 | 24,958 | 2,875 | 38,666 |
| April | 64,265 | 0 | 23,687 | 2,685 | 37,894 |
| May | 67,344 | 0 | 24,178 | 3,047 | 40,119 |
| June | 66,791 | 0 | 24,165 | 2,912 | 39,714 |
| July | 77,883 | 0 | 29,452 | 3,910 | 44,520 |
| August | 78,356 | 0 | 28,864 | 3,877 | 45,616 |
| September | 70,438 | 0 | 25,286 | 3,339 | 41,812 |
| October | 66,780 | 0 | 23,880 | 3,155 | 39,744 |
| November | 67,698 | 0 | 24,826 | 3,422 | 39,450 |
| December | 75,769 | 0 | 27,542 | 4,083 | 44,145 |
| 2012 | | | | | |
| January | 75,174 | 0 | 27,843 | 4,072 | 43,259 |
| February | 69,960 | 0 | 25,937 | 3,869 | 40,154 |
| March | 70,324 | 0 | 24,040 | 3,743 | 42,542 |
| April | 71,587 | 0 | 25,691 | 3,484 | 42,412 |
| May | 72,877 | 0 | 27,525 | 3,543 | 41,808 |
| June | 74,822 | 0 | 27,995 | 3,799 | 43,028 |
| July | 82,618 | 0 | 29,994 | 4,798 | 47,827 |
| August | 80,621 | 0 | 30,153 | 4,661 | 45,807 |
| September | 72,357 | 0 | 25,807 | 4,292 | 42,258 |
| October | 70,985 | 0 | 25,112 | 4,005 | 41,867 |
| November | 69,240 | 0 | 23,855 | 3,809 | 41,577 |
| December | 75,537 | 0 | 28,655 | 3,809 | 43,073 |
| 2013 | | | | | |
| January | 74,638 | 0 | 25,440 | 4,277 | 44,920 |
| February | 67,391 | 0 | 23,519 | 3,883 | 39,989 |
| March | 73,151 | 0 | 25,107 | 4,051 | 43,993 |
| April | 70,245 | 0 | 23,817 | 3,571 | 42,857 |
| May | 70,784 | 0 | 24,040 | 3,703 | 43,041 |
| June | 70,610 | 0 | 24,349 | 4,045 | 42,216 |
| July | 78,649 | 0 | 27,553 | 4,968 | 46,128 |
| August | 78,207 | 0 | 27,452 | 4,811 | 45,943 |
| September | 72,884 | 0 | 24,996 | 4,358 | 43,529 |
| October | 72,095 | 0 | 23,964 | 4,137 | 43,993 |
| November | 73,889 | 0 | 25,253 | 4,336 | 44,300 |
| December | 79,843 | 0 | 27,687 | 4,915 | 47,241 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Million Cubic Feet)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 6,337,402 | 1,763,764 | 3,371,452 | 58,453 | 1,143,734 |
| 2004 | 6,726,679 | 1,809,443 | 3,654,320 | 72,072 | 1,190,844 |
| 2005 | 7,020,709 | 2,134,859 | 3,734,286 | 67,957 | 1,083,607 |
| 2006 | 7,404,432 | 2,478,396 | 3,743,704 | 67,735 | 1,114,597 |
| 2007 | 7,961,922 | 2,736,418 | 4,104,991 | 70,074 | 1,050,439 |
| 2008 | 7,689,380 | 2,730,134 | 3,938,245 | 66,216 | 954,785 |
| 2009 | 7,937,856 | 2,911,279 | 3,961,254 | 75,555 | 989,769 |
| 2010 | 8,501,960 | 3,290,993 | 4,096,192 | 85,786 | 1,028,990 |
| 2011 | 8,723,546 | 3,446,087 | 4,127,777 | 87,026 | 1,062,657 |
| 2012 | 10,370,812 | 4,101,927 | 5,008,867 | 110,999 | 1,149,020 |
| 2013 | 9,478,685 | 3,970,447 | 4,220,309 | 117,626 | 1,170,303 |
| 2011 | | | | | |
| January | 636,477 | 238,731 | 301,061 | 7,108 | 89,577 |
| February | 570,218 | 208,813 | 274,873 | 6,032 | 80,500 |
| March | 569,590 | 217,538 | 264,388 | 6,044 | 81,620 |
| April | 610,190 | 243,866 | 277,587 | 5,747 | 82,990 |
| May | 666,033 | 268,818 | 303,180 | 7,090 | 86,945 |
| June | 793,979 | 330,305 | 369,109 | 6,869 | 87,696 |
| July | 1,045,008 | 430,187 | 508,388 | 9,226 | 97,207 |
| August | 1,029,781 | 421,042 | 500,407 | 8,878 | 99,454 |
| September | 782,418 | 306,699 | 377,499 | 7,629 | 90,591 |
| October | 666,323 | 266,740 | 308,192 | 6,882 | 84,509 |
| November | 635,705 | 242,306 | 300,240 | 7,130 | 86,029 |
| December | 717,824 | 271,041 | 342,852 | 8,392 | 95,539 |
| 2012 | | | | | |
| January | 752,291 | 285,194 | 363,628 | 9,137 | 94,331 |
| February | 742,237 | 274,977 | 369,553 | 8,824 | 88,883 |
| March | 773,857 | 295,548 | 378,550 | 8,872 | 90,887 |
| April | 813,147 | 321,202 | 393,136 | 8,528 | 90,281 |
| May | 916,260 | 376,968 | 435,499 | 8,806 | 94,988 |
| June | 987,291 | 403,071 | 476,810 | 9,637 | 97,774 |
| July | 1,200,988 | 492,043 | 589,645 | 12,110 | 107,190 |
| August | 1,119,312 | 447,137 | 556,802 | 10,585 | 104,789 |
| September | 907,466 | 358,829 | 443,759 | 9,306 | 95,572 |
| October | 771,333 | 304,811 | 364,384 | 8,626 | 93,512 |
| November | 680,920 | 265,122 | 314,624 | 8,281 | 92,894 |
| December | 705,710 | 277,026 | 322,476 | 8,288 | 97,920 |
| 2013 | | | | | |
| January | 741,288 | 310,174 | 321,512 | 9,524 | 100,079 |
| February | 666,492 | 278,139 | 290,249 | 8,690 | 89,413 |
| March | 710,500 | 293,545 | 310,365 | 9,417 | 97,174 |
| April | 665,912 | 268,467 | 296,361 | 8,666 | 92,419 |
| May | 717,080 | 295,973 | 318,835 | 8,863 | 93,410 |
| June | 842,478 | 363,204 | 373,946 | 9,627 | 95,701 |
| July | 1,027,790 | 432,493 | 478,631 | 12,137 | 104,529 |
| August | 1,015,404 | 442,939 | 457,592 | 11,260 | 103,614 |
| September | 857,503 | 365,005 | 386,477 | 10,363 | 95,657 |
| October | 741,859 | 312,216 | 324,822 | 9,130 | 95,691 |
| November | 707,774 | 284,526 | 316,494 | 9,218 | 97,537 |
| December | 784,605 | 323,768 | 345,024 | 10,732 | 105,081 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.4.D. Natural Gas: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 5,735,770 | 1,809,003 | 3,200,057 | 39,424 | 687,286 |
| 2004 | 5,827,470 | 1,857,247 | 3,351,469 | 33,623 | 585,132 |
| 2005 | 6,212,116 | 2,198,098 | 3,444,875 | 34,645 | 534,498 |
| 2006 | 6,643,926 | 2,546,169 | 3,508,597 | 35,473 | 553,687 |
| 2007 | 7,287,714 | 2,808,500 | 3,872,646 | 34,872 | 571,697 |
| 2008 | 7,087,191 | 2,803,283 | 3,712,872 | 34,138 | 536,899 |
| 2009 | 7,301,522 | 2,981,285 | 3,750,080 | 35,046 | 535,111 |
| 2010 | 7,852,665 | 3,359,035 | 3,882,995 | 40,356 | 570,279 |
| 2011 | 8,052,309 | 3,511,732 | 3,906,484 | 48,509 | 585,584 |
| 2012 | 9,696,575 | 4,179,725 | 4,802,741 | 64,987 | 649,122 |
| 2013 | 8,813,288 | 4,059,838 | 4,026,793 | 67,918 | 658,740 |
| 2011 | | | | | |
| January | 575,521 | 243,212 | 279,664 | 3,624 | 49,021 |
| February | 516,427 | 212,934 | 256,497 | 3,160 | 43,836 |
| March | 513,724 | 221,498 | 244,797 | 3,258 | 44,171 |
| April | 557,693 | 248,459 | 259,863 | 3,145 | 46,225 |
| May | 611,133 | 273,835 | 285,175 | 4,157 | 47,965 |
| June | 742,708 | 336,934 | 352,589 | 4,066 | 49,119 |
| July | 987,734 | 438,636 | 489,752 | 5,457 | 53,889 |
| August | 972,096 | 429,646 | 482,196 | 5,139 | 55,114 |
| September | 727,690 | 312,770 | 360,489 | 4,416 | 50,015 |
| October | 612,031 | 271,503 | 290,845 | 3,834 | 45,849 |
| November | 579,856 | 246,548 | 281,804 | 3,817 | 47,686 |
| December | 655,696 | 275,756 | 322,811 | 4,435 | 52,694 |
| 2012 | | | | | |
| January | 691,050 | 289,886 | 343,654 | 5,205 | 52,306 |
| February | 686,769 | 279,714 | 352,021 | 5,096 | 49,939 |
| March | 718,581 | 300,651 | 363,088 | 5,277 | 49,565 |
| April | 757,509 | 327,112 | 376,092 | 5,194 | 49,111 |
| May | 861,735 | 383,976 | 417,780 | 5,406 | 54,573 |
| June | 933,301 | 411,234 | 459,926 | 6,014 | 56,127 |
| July | 1,143,646 | 502,138 | 573,074 | 7,541 | 60,893 |
| August | 1,062,885 | 456,248 | 540,239 | 6,106 | 60,293 |
| September | 854,055 | 365,700 | 428,593 | 5,167 | 54,595 |
| October | 716,356 | 310,484 | 348,176 | 4,757 | 52,940 |
| November | 625,552 | 270,068 | 298,319 | 4,610 | 52,555 |
| December | 645,135 | 282,515 | 301,780 | 4,616 | 56,225 |
| 2013 | | | | | |
| January | 682,789 | 316,593 | 304,155 | 5,369 | 56,671 |
| February | 612,994 | 283,589 | 273,760 | 4,918 | 50,727 |
| March | 652,614 | 299,857 | 292,673 | 5,473 | 54,610 |
| April | 610,112 | 274,005 | 280,148 | 5,191 | 50,768 |
| May | 662,458 | 302,275 | 303,396 | 5,254 | 51,533 |
| June | 791,607 | 371,403 | 359,645 | 5,694 | 54,865 |
| July | 974,371 | 442,779 | 464,389 | 7,319 | 59,884 |
| August | 961,152 | 453,529 | 441,994 | 6,577 | 59,051 |
| September | 805,110 | 373,801 | 371,746 | 6,124 | 53,439 |
| October | 686,941 | 319,387 | 309,370 | 5,088 | 53,096 |
| November | 649,915 | 291,076 | 299,155 | 4,978 | 54,707 |
| December | 723,226 | 331,545 | 326,361 | 5,932 | 59,389 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.4.E. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 762,779 | 0 | 250,120 | 21,238 | 491,421 |
| 2004 | 1,085,191 | 0 | 398,476 | 40,122 | 646,593 |
| 2005 | 1,008,404 | 0 | 392,842 | 35,037 | 580,525 |
| 2006 | 968,574 | 0 | 339,047 | 33,928 | 595,599 |
| 2007 | 894,272 | 0 | 347,181 | 36,689 | 510,402 |
| 2008 | 813,794 | 0 | 333,197 | 33,434 | 447,163 |
| 2009 | 836,863 | 0 | 312,553 | 42,032 | 482,279 |
| 2010 | 841,521 | 0 | 308,246 | 47,001 | 486,274 |
| 2011 | 861,006 | 0 | 315,411 | 40,976 | 504,619 |
| 2012 | 909,087 | 0 | 330,354 | 48,944 | 529,788 |
| 2013 | 905,583 | 0 | 311,058 | 51,939 | 542,587 |
| 2011 | | | | | |
| January | 74,528 | 0 | 28,057 | 3,686 | 42,785 |
| February | 66,742 | 0 | 24,863 | 3,042 | 38,837 |
| March | 68,226 | 0 | 25,457 | 2,958 | 39,812 |
| April | 65,865 | 0 | 24,174 | 2,759 | 38,932 |
| May | 69,019 | 0 | 24,680 | 3,131 | 41,208 |
| June | 68,611 | 0 | 24,792 | 2,993 | 40,826 |
| July | 79,769 | 0 | 30,061 | 4,015 | 45,693 |
| August | 80,249 | 0 | 29,349 | 3,988 | 46,912 |
| September | 72,408 | 0 | 25,930 | 3,442 | 43,036 |
| October | 68,525 | 0 | 24,469 | 3,248 | 40,808 |
| November | 69,359 | 0 | 25,380 | 3,518 | 40,461 |
| December | 77,705 | 0 | 28,198 | 4,198 | 45,309 |
| 2012 | | | | | |
| January | 77,111 | 0 | 28,515 | 4,162 | 44,434 |
| February | 71,774 | 0 | 26,572 | 3,955 | 41,247 |
| March | 72,137 | 0 | 24,594 | 3,827 | 43,717 |
| April | 73,470 | 0 | 26,290 | 3,562 | 43,618 |
| May | 74,851 | 0 | 28,159 | 3,622 | 43,070 |
| June | 76,791 | 0 | 28,666 | 3,882 | 44,244 |
| July | 84,854 | 0 | 30,691 | 4,900 | 49,264 |
| August | 82,540 | 0 | 30,883 | 4,761 | 46,896 |
| September | 74,228 | 0 | 26,494 | 4,385 | 43,349 |
| October | 72,830 | 0 | 25,759 | 4,098 | 42,973 |
| November | 71,018 | 0 | 24,394 | 3,894 | 42,730 |
| December | 77,481 | 0 | 29,336 | 3,897 | 44,247 |
| 2013 | | | | | |
| January | 76,717 | 0 | 26,089 | 4,346 | 46,281 |
| February | 69,168 | 0 | 24,128 | 3,948 | 41,091 |
| March | 75,220 | 0 | 25,767 | 4,123 | 45,330 |
| April | 72,174 | 0 | 24,507 | 3,631 | 44,036 |
| May | 72,623 | 0 | 24,741 | 3,765 | 44,118 |
| June | 72,557 | 0 | 25,054 | 4,118 | 43,386 |
| July | 80,666 | 0 | 28,262 | 5,057 | 47,347 |
| August | 80,163 | 0 | 28,121 | 4,898 | 47,145 |
| September | 74,769 | 0 | 25,637 | 4,436 | 44,696 |
| October | 73,891 | 0 | 24,514 | 4,207 | 45,171 |
| November | 75,752 | 0 | 25,861 | 4,411 | 45,480 |
| December | 81,882 | 0 | 28,379 | 4,998 | 48,505 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.4.F. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 6,498,549 | 1,809,003 | 3,450,177 | 60,662 | 1,178,707 |
| 2004 | 6,912,661 | 1,857,247 | 3,749,945 | 73,744 | 1,231,725 |
| 2005 | 7,220,520 | 2,198,098 | 3,837,717 | 69,682 | 1,115,023 |
| 2006 | 7,612,500 | 2,546,169 | 3,847,644 | 69,401 | 1,149,286 |
| 2007 | 8,181,986 | 2,808,500 | 4,219,827 | 71,560 | 1,082,099 |
| 2008 | 7,900,986 | 2,803,283 | 4,046,069 | 67,571 | 984,062 |
| 2009 | 8,138,385 | 2,981,285 | 4,062,633 | 77,077 | 1,017,390 |
| 2010 | 8,694,186 | 3,359,035 | 4,191,241 | 87,357 | 1,056,553 |
| 2011 | 8,913,315 | 3,511,732 | 4,221,895 | 89,485 | 1,090,203 |
| 2012 | 10,605,661 | 4,179,725 | 5,133,095 | 113,932 | 1,178,910 |
| 2013 | 9,718,871 | 4,059,838 | 4,337,851 | 119,857 | 1,201,326 |
| 2011 | | | | | |
| January | 650,049 | 243,212 | 307,721 | 7,310 | 91,806 |
| February | 583,169 | 212,934 | 281,360 | 6,203 | 82,672 |
| March | 581,951 | 221,498 | 270,254 | 6,216 | 83,983 |
| April | 623,558 | 248,459 | 284,037 | 5,904 | 85,157 |
| May | 680,152 | 273,835 | 309,856 | 7,288 | 89,173 |
| June | 811,319 | 336,934 | 377,381 | 7,059 | 89,945 |
| July | 1,067,503 | 438,636 | 519,813 | 9,472 | 99,582 |
| August | 1,052,345 | 429,646 | 511,546 | 9,127 | 102,026 |
| September | 800,097 | 312,770 | 386,419 | 7,857 | 93,051 |
| October | 680,557 | 271,503 | 315,315 | 7,081 | 86,658 |
| November | 649,215 | 246,548 | 307,185 | 7,336 | 88,147 |
| December | 733,401 | 275,756 | 351,009 | 8,632 | 98,003 |
| 2012 | | | | | |
| January | 768,162 | 289,886 | 372,169 | 9,367 | 96,740 |
| February | 758,544 | 279,714 | 378,593 | 9,050 | 91,186 |
| March | 790,718 | 300,651 | 387,681 | 9,103 | 93,282 |
| April | 830,979 | 327,112 | 402,382 | 8,756 | 92,729 |
| May | 936,586 | 383,976 | 445,939 | 9,028 | 97,643 |
| June | 1,010,092 | 411,234 | 488,592 | 9,896 | 100,371 |
| July | 1,228,500 | 502,138 | 603,765 | 12,440 | 110,157 |
| August | 1,145,425 | 456,248 | 571,122 | 10,867 | 107,189 |
| September | 928,283 | 365,700 | 455,087 | 9,552 | 97,943 |
| October | 789,186 | 310,484 | 373,935 | 8,854 | 95,913 |
| November | 696,571 | 270,068 | 322,713 | 8,505 | 95,285 |
| December | 722,616 | 282,515 | 331,117 | 8,512 | 100,472 |
| 2013 | | | | | |
| January | 759,506 | 316,593 | 330,244 | 9,716 | 102,952 |
| February | 682,162 | 283,589 | 297,888 | 8,866 | 91,818 |
| March | 727,834 | 299,857 | 318,440 | 9,596 | 99,941 |
| April | 682,286 | 274,005 | 304,655 | 8,822 | 94,804 |
| May | 735,081 | 302,275 | 328,137 | 9,019 | 95,651 |
| June | 864,164 | 371,403 | 384,699 | 9,812 | 98,250 |
| July | 1,055,037 | 442,779 | 492,650 | 12,376 | 107,231 |
| August | 1,041,315 | 453,529 | 470,115 | 11,475 | 106,196 |
| September | 879,879 | 373,801 | 397,383 | 10,561 | 98,135 |
| October | 760,832 | 319,387 | 333,884 | 9,295 | 98,267 |
| November | 725,667 | 291,076 | 325,016 | 9,389 | 100,187 |
| December | 805,108 | 331,545 | 354,739 | 10,931 | 107,893 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.5.D. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 519,294 | 16,545 | 139,852 | 437 | 362,460 |
| 2004 | 344,134 | 19,973 | 130,248 | 168 | 193,745 |
| 2005 | 355,250 | 27,373 | 138,407 | 207 | 189,263 |
| 2006 | 350,074 | 27,455 | 135,546 | 269 | 186,803 |
| 2007 | 353,025 | 31,568 | 132,953 | 284 | 188,220 |
| 2008 | 338,786 | 29,150 | 130,122 | 287 | 179,227 |
| 2009 | 320,444 | 29,565 | 130,894 | 274 | 159,712 |
| 2010 | 349,530 | 40,167 | 137,072 | 274 | 172,016 |
| 2011 | 347,623 | 35,474 | 130,108 | 482 | 181,559 |
| 2012 | 390,342 | 32,723 | 138,217 | 478 | 218,924 |
| 2013 | 397,929 | 43,363 | 143,721 | 536 | 210,308 |
| 2011 | | | | | |
| January | 30,922 | 3,447 | 11,785 | 45 | 15,646 |
| February | 27,914 | 3,268 | 10,751 | 58 | 13,837 |
| March | 28,821 | 3,307 | 10,692 | 39 | 14,783 |
| April | 25,010 | 2,086 | 8,705 | 38 | 14,182 |
| May | 25,819 | 2,213 | 9,641 | 32 | 13,933 |
| June | 29,975 | 3,118 | 11,126 | 41 | 15,690 |
| July | 31,289 | 3,345 | 12,173 | 48 | 15,724 |
| August | 31,729 | 3,661 | 12,097 | 43 | 15,928 |
| September | 29,534 | 3,116 | 10,967 | 34 | 15,417 |
| October | 27,245 | 2,722 | 9,960 | 23 | 14,540 |
| November | 27,979 | 2,117 | 10,322 | 34 | 15,506 |
| December | 31,385 | 3,075 | 11,889 | 47 | 16,375 |
| 2012 | | | | | |
| January | 34,582 | 3,060 | 12,146 | 42 | 19,335 |
| February | 32,667 | 2,920 | 11,556 | 40 | 18,152 |
| March | 31,023 | 2,446 | 11,529 | 36 | 17,012 |
| April | 28,062 | 1,735 | 9,538 | 35 | 16,753 |
| May | 30,164 | 2,751 | 9,882 | 33 | 17,498 |
| June | 32,221 | 2,410 | 12,170 | 39 | 17,601 |
| July | 34,692 | 2,874 | 13,217 | 47 | 18,554 |
| August | 35,328 | 3,246 | 12,839 | 49 | 19,194 |
| September | 33,051 | 2,732 | 12,158 | 32 | 18,129 |
| October | 31,734 | 2,305 | 11,054 | 25 | 18,350 |
| November | 32,205 | 3,013 | 10,566 | 48 | 18,578 |
| December | 34,612 | 3,232 | 11,560 | 52 | 19,769 |
| 2013 | | | | | |
| January | 33,353 | 3,294 | 12,101 | 46 | 17,912 |
| February | 29,984 | 3,036 | 10,623 | 43 | 16,282 |
| March | 32,674 | 3,280 | 11,999 | 51 | 17,344 |
| April | 27,741 | 1,964 | 9,730 | 21 | 16,027 |
| May | 31,241 | 3,025 | 10,837 | 35 | 17,344 |
| June | 33,044 | 3,409 | 11,757 | 44 | 17,833 |
| July | 35,341 | 4,027 | 12,669 | 43 | 18,601 |
| August | 36,477 | 4,116 | 13,924 | 47 | 18,389 |
| September | 33,383 | 4,025 | 12,350 | 33 | 16,974 |
| October | 33,694 | 4,329 | 11,681 | 52 | 17,632 |
| November | 34,163 | 4,364 | 12,503 | 58 | 17,238 |
| December | 36,834 | 4,493 | 13,547 | 64 | 18,730 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.5.E. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 746,375 | 0 | 10,893 | 762 | 734,720 |
| 2004 | 1,016,124 | 0 | 14,968 | 1,493 | 999,663 |
| 2005 | 997,331 | 0 | 19,193 | 1,028 | 977,111 |
| 2006 | 1,049,161 | 0 | 18,814 | 1,045 | 1,029,303 |
| 2007 | 982,486 | 0 | 21,435 | 1,756 | 959,296 |
| 2008 | 923,889 | 0 | 18,075 | 1,123 | 904,690 |
| 2009 | 816,285 | 0 | 19,587 | 1,135 | 795,563 |
| 2010 | 876,041 | 0 | 18,357 | 1,064 | 856,620 |
| 2011 | 893,314 | 0 | 16,577 | 1,022 | 875,716 |
| 2012 | 883,158 | 0 | 19,251 | 949 | 862,958 |
| 2013 | 919,631 | 0 | 20,342 | 950 | 898,339 |
| 2011 | | | | | |
| January | 80,138 | 0 | 1,676 | 91 | 78,371 |
| February | 70,603 | 0 | 1,528 | 79 | 68,996 |
| March | 75,045 | 0 | 1,293 | 74 | 73,678 |
| April | 70,916 | 0 | 1,159 | 107 | 69,650 |
| May | 69,518 | 0 | 1,327 | 83 | 68,108 |
| June | 74,262 | 0 | 1,390 | 96 | 72,776 |
| July | 75,431 | 0 | 1,443 | 106 | 73,882 |
| August | 75,179 | 0 | 1,411 | 84 | 73,684 |
| September | 74,155 | 0 | 1,409 | 70 | 72,676 |
| October | 72,932 | 0 | 1,358 | 52 | 71,522 |
| November | 75,474 | 0 | 1,228 | 82 | 74,164 |
| December | 79,660 | 0 | 1,354 | 99 | 78,207 |
| 2012 | | | | | |
| January | 75,884 | 0 | 1,631 | 78 | 74,175 |
| February | 71,356 | 0 | 1,551 | 77 | 69,729 |
| March | 72,102 | 0 | 1,631 | 68 | 70,403 |
| April | 68,208 | 0 | 1,434 | 81 | 66,693 |
| May | 72,744 | 0 | 1,385 | 67 | 71,293 |
| June | 72,221 | 0 | 1,797 | 89 | 70,335 |
| July | 74,756 | 0 | 1,645 | 92 | 73,019 |
| August | 75,527 | 0 | 1,845 | 88 | 73,594 |
| September | 74,208 | 0 | 1,600 | 77 | 72,531 |
| October | 74,164 | 0 | 1,747 | 76 | 72,342 |
| November | 74,571 | 0 | 1,440 | 81 | 73,050 |
| December | 77,417 | 0 | 1,547 | 77 | 75,794 |
| 2013 | | | | | |
| January | 79,616 | 0 | 1,730 | 77 | 77,810 |
| February | 71,246 | 0 | 1,642 | 74 | 69,530 |
| March | 76,554 | 0 | 1,698 | 81 | 74,775 |
| April | 73,726 | 0 | 1,956 | 21 | 71,749 |
| May | 75,190 | 0 | 1,475 | 48 | 73,667 |
| June | 76,058 | 0 | 1,618 | 75 | 74,365 |
| July | 82,751 | 0 | 1,751 | 82 | 80,918 |
| August | 79,205 | 0 | 1,868 | 84 | 77,253 |
| September | 73,225 | 0 | 1,660 | 45 | 71,520 |
| October | 74,777 | 0 | 1,512 | 106 | 73,159 |
| November | 77,020 | 0 | 1,662 | 114 | 75,244 |
| December | 80,263 | 0 | 1,771 | 143 | 78,350 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.5.F. Wood / Wood Waste Biomass: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 1,265,669 | 16,545 | 150,745 | 1,199 | 1,097,180 |
| 2004 | 1,360,258 | 19,973 | 145,216 | 1,661 | 1,193,408 |
| 2005 | 1,352,582 | 27,373 | 157,600 | 1,235 | 1,166,373 |
| 2006 | 1,399,235 | 27,455 | 154,360 | 1,314 | 1,216,106 |
| 2007 | 1,335,511 | 31,568 | 154,388 | 2,040 | 1,147,516 |
| 2008 | 1,262,675 | 29,150 | 148,198 | 1,410 | 1,083,917 |
| 2009 | 1,136,729 | 29,565 | 150,481 | 1,408 | 955,276 |
| 2010 | 1,225,571 | 40,167 | 155,429 | 1,338 | 1,028,637 |
| 2011 | 1,240,937 | 35,474 | 146,684 | 1,504 | 1,057,275 |
| 2012 | 1,273,500 | 32,723 | 157,468 | 1,427 | 1,081,882 |
| 2013 | 1,317,560 | 43,363 | 164,063 | 1,486 | 1,108,647 |
| 2011 | | | | | |
| January | 111,060 | 3,447 | 13,461 | 135 | 94,017 |
| February | 98,517 | 3,268 | 12,279 | 137 | 82,833 |
| March | 103,866 | 3,307 | 11,985 | 113 | 88,461 |
| April | 95,927 | 2,086 | 9,863 | 145 | 83,832 |
| May | 95,337 | 2,213 | 10,968 | 115 | 82,041 |
| June | 104,237 | 3,118 | 12,516 | 136 | 88,466 |
| July | 106,720 | 3,345 | 13,615 | 155 | 89,606 |
| August | 106,908 | 3,661 | 13,508 | 128 | 89,611 |
| September | 103,689 | 3,116 | 12,376 | 104 | 88,093 |
| October | 100,177 | 2,722 | 11,318 | 75 | 86,062 |
| November | 103,453 | 2,117 | 11,550 | 116 | 89,670 |
| December | 111,046 | 3,075 | 13,244 | 145 | 94,582 |
| 2012 | | | | | |
| January | 110,466 | 3,060 | 13,777 | 120 | 93,509 |
| February | 104,023 | 2,920 | 13,106 | 117 | 87,880 |
| March | 103,126 | 2,446 | 13,161 | 103 | 87,415 |
| April | 96,270 | 1,735 | 10,972 | 116 | 83,446 |
| May | 102,908 | 2,751 | 11,267 | 100 | 88,791 |
| June | 104,442 | 2,410 | 13,967 | 128 | 87,936 |
| July | 109,448 | 2,874 | 14,862 | 139 | 91,573 |
| August | 110,856 | 3,246 | 14,685 | 138 | 92,788 |
| September | 107,259 | 2,732 | 13,758 | 109 | 90,660 |
| October | 105,898 | 2,305 | 12,801 | 101 | 90,691 |
| November | 106,776 | 3,013 | 12,006 | 129 | 91,628 |
| December | 112,030 | 3,232 | 13,106 | 129 | 95,563 |
| 2013 | | | | | |
| January | 112,969 | 3,294 | 13,831 | 123 | 95,721 |
| February | 101,230 | 3,036 | 12,265 | 117 | 85,813 |
| March | 109,229 | 3,280 | 13,697 | 132 | 92,120 |
| April | 101,468 | 1,964 | 11,685 | 42 | 87,776 |
| May | 106,431 | 3,025 | 12,312 | 83 | 91,011 |
| June | 109,102 | 3,409 | 13,375 | 119 | 92,198 |
| July | 118,092 | 4,027 | 14,421 | 125 | 99,519 |
| August | 115,682 | 4,116 | 15,792 | 131 | 95,642 |
| September | 106,608 | 4,025 | 14,011 | 78 | 88,494 |
| October | 108,471 | 4,329 | 13,193 | 158 | 90,791 |
| November | 111,183 | 4,364 | 14,165 | 172 | 92,482 |
| December | 117,097 | 4,493 | 15,317 | 207 | 97,080 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.6.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Million Cubic Feet)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 136,421 | 9,168 | 121,984 | 3,280 | 1,989 |
| 2004 | 143,844 | 11,250 | 125,848 | 4,081 | 2,665 |
| 2005 | 141,899 | 11,490 | 123,064 | 4,797 | 2,548 |
| 2006 | 160,033 | 16,617 | 136,108 | 6,644 | 664 |
| 2007 | 166,774 | 17,442 | 144,104 | 4,598 | 630 |
| 2008 | 195,777 | 20,465 | 169,547 | 5,235 | 530 |
| 2009 | 206,792 | 19,583 | 180,689 | 5,931 | 589 |
| 2010 | 218,331 | 19,975 | 192,428 | 5,535 | 393 |
| 2011 | 232,795 | 22,086 | 180,856 | 29,469 | 384 |
| 2012 | 256,376 | 25,193 | 201,965 | 26,672 | 2,545 |
| 2013 | 271,967 | 27,259 | 211,942 | 28,143 | 4,623 |
| 2011 | | | | | |
| January | 18,885 | 1,725 | 14,677 | 2,454 | 30 |
| February | 17,636 | 1,598 | 13,612 | 2,400 | 26 |
| March | 19,016 | 1,703 | 14,660 | 2,626 | 28 |
| April | 17,861 | 1,677 | 13,752 | 2,402 | 30 |
| May | 18,908 | 1,728 | 14,628 | 2,518 | 33 |
| June | 19,707 | 1,755 | 15,382 | 2,535 | 35 |
| July | 20,419 | 1,841 | 15,878 | 2,667 | 33 |
| August | 20,779 | 1,965 | 16,090 | 2,687 | 37 |
| September | 19,319 | 1,730 | 15,116 | 2,440 | 33 |
| October | 19,291 | 2,137 | 14,995 | 2,126 | 32 |
| November | 20,227 | 2,107 | 15,817 | 2,267 | 36 |
| December | 20,747 | 2,120 | 16,249 | 2,347 | 32 |
| 2012 | | | | | |
| January | 21,454 | 1,889 | 16,999 | 2,352 | 214 |
| February | 19,337 | 1,833 | 15,100 | 2,200 | 205 |
| March | 20,905 | 1,976 | 16,543 | 2,177 | 208 |
| April | 20,015 | 2,064 | 15,557 | 2,184 | 210 |
| May | 21,031 | 2,214 | 16,427 | 2,177 | 213 |
| June | 20,722 | 2,082 | 16,315 | 2,120 | 206 |
| July | 22,294 | 2,282 | 17,649 | 2,141 | 221 |
| August | 22,490 | 2,316 | 17,672 | 2,293 | 210 |
| September | 21,151 | 2,055 | 16,702 | 2,208 | 185 |
| October | 22,392 | 2,264 | 17,625 | 2,292 | 211 |
| November | 21,528 | 2,102 | 16,887 | 2,317 | 223 |
| December | 23,056 | 2,115 | 18,488 | 2,213 | 240 |
| 2013 | | | | | |
| January | 22,446 | 2,169 | 17,413 | 2,494 | 371 |
| February | 20,061 | 1,962 | 15,670 | 2,098 | 331 |
| March | 23,296 | 2,302 | 18,243 | 2,384 | 366 |
| April | 21,467 | 2,261 | 16,911 | 1,942 | 353 |
| May | 23,275 | 2,317 | 18,229 | 2,343 | 387 |
| June | 22,614 | 2,168 | 17,652 | 2,407 | 387 |
| July | 23,199 | 2,109 | 18,232 | 2,469 | 389 |
| August | 24,445 | 2,964 | 18,590 | 2,515 | 377 |
| September | 22,680 | 2,272 | 17,654 | 2,366 | 388 |
| October | 22,199 | 2,286 | 17,082 | 2,432 | 400 |
| November | 22,709 | 2,210 | 17,825 | 2,252 | 422 |
| December | 23,576 | 2,241 | 18,441 | 2,441 | 453 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.6.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Million Cubic Feet)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 993 | 0 | 116 | 0 | 876 |
| 2004 | 2,174 | 0 | 735 | 10 | 1,429 |
| 2005 | 1,923 | 0 | 965 | 435 | 522 |
| 2006 | 2,051 | 0 | 525 | 1,094 | 433 |
| 2007 | 1,988 | 0 | 386 | 1,102 | 501 |
| 2008 | 1,025 | 0 | 454 | 433 | 138 |
| 2009 | 793 | 0 | 545 | 176 | 72 |
| 2010 | 1,623 | 0 | 1,195 | 370 | 58 |
| 2011 | 3,195 | 0 | 2,753 | 351 | 91 |
| 2012 | 3,189 | 0 | 2,788 | 340 | 61 |
| 2013 | 831 | 0 | 261 | 423 | 147 |
| 2011 | | | | | |
| January | 312 | 0 | 276 | 29 | 7 |
| February | 280 | 0 | 246 | 28 | 6 |
| March | 274 | 0 | 237 | 31 | 6 |
| April | 239 | 0 | 203 | 29 | 7 |
| May | 238 | 0 | 200 | 30 | 8 |
| June | 246 | 0 | 209 | 29 | 8 |
| July | 252 | 0 | 217 | 28 | 8 |
| August | 282 | 0 | 245 | 28 | 9 |
| September | 281 | 0 | 244 | 30 | 8 |
| October | 307 | 0 | 266 | 33 | 8 |
| November | 171 | 0 | 132 | 30 | 8 |
| December | 313 | 0 | 279 | 26 | 7 |
| 2012 | | | | | |
| January | 307 | 0 | 272 | 31 | 4 |
| February | 292 | 0 | 258 | 29 | 4 |
| March | 243 | 0 | 209 | 30 | 5 |
| April | 254 | 0 | 221 | 28 | 5 |
| May | 265 | 0 | 230 | 29 | 5 |
| June | 212 | 0 | 179 | 28 | 5 |
| July | 295 | 0 | 260 | 29 | 6 |
| August | 260 | 0 | 229 | 25 | 6 |
| September | 285 | 0 | 256 | 24 | 5 |
| October | 299 | 0 | 265 | 28 | 6 |
| November | 186 | 0 | 149 | 32 | 5 |
| December | 291 | 0 | 260 | 27 | 5 |
| 2013 | | | | | |
| January | 64 | 0 | 18 | 33 | 12 |
| February | 64 | 0 | 22 | 30 | 11 |
| March | 60 | 0 | 23 | 24 | 13 |
| April | 76 | 0 | 28 | 37 | 11 |
| May | 86 | 0 | 35 | 40 | 11 |
| June | 79 | 0 | 30 | 37 | 12 |
| July | 87 | 0 | 35 | 39 | 13 |
| August | 77 | 0 | 27 | 37 | 13 |
| September | 65 | 0 | 17 | 35 | 12 |
| October | 62 | 0 | 15 | 35 | 12 |
| November | 54 | 0 | 4 | 38 | 12 |
| December | 59 | 0 | 8 | 38 | 13 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.6.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Million Cubic Feet)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 137,414 | 9,168 | 122,100 | 3,280 | 2,865 |
| 2004 | 146,018 | 11,250 | 126,584 | 4,091 | 4,093 |
| 2005 | 143,822 | 11,490 | 124,030 | 5,232 | 3,070 |
| 2006 | 162,084 | 16,617 | 136,632 | 7,738 | 1,096 |
| 2007 | 168,762 | 17,442 | 144,490 | 5,699 | 1,131 |
| 2008 | 196,802 | 20,465 | 170,001 | 5,668 | 668 |
| 2009 | 207,585 | 19,583 | 181,234 | 6,106 | 661 |
| 2010 | 219,954 | 19,975 | 193,623 | 5,905 | 451 |
| 2011 | 235,990 | 22,086 | 183,609 | 29,820 | 474 |
| 2012 | 259,564 | 25,193 | 204,753 | 27,012 | 2,606 |
| 2013 | 272,798 | 27,259 | 212,203 | 28,566 | 4,770 |
| 2011 | | | | | |
| January | 19,197 | 1,725 | 14,952 | 2,483 | 37 |
| February | 17,916 | 1,598 | 13,858 | 2,428 | 32 |
| March | 19,290 | 1,703 | 14,897 | 2,656 | 34 |
| April | 18,100 | 1,677 | 13,954 | 2,431 | 37 |
| May | 19,146 | 1,728 | 14,829 | 2,548 | 41 |
| June | 19,954 | 1,755 | 15,592 | 2,564 | 43 |
| July | 20,672 | 1,841 | 16,095 | 2,695 | 40 |
| August | 21,061 | 1,965 | 16,335 | 2,715 | 46 |
| September | 19,600 | 1,730 | 15,360 | 2,470 | 41 |
| October | 19,597 | 2,137 | 15,261 | 2,159 | 40 |
| November | 20,398 | 2,107 | 15,949 | 2,298 | 45 |
| December | 21,060 | 2,120 | 16,527 | 2,374 | 39 |
| 2012 | | | | | |
| January | 21,761 | 1,889 | 17,271 | 2,382 | 218 |
| February | 19,629 | 1,833 | 15,358 | 2,229 | 209 |
| March | 21,149 | 1,976 | 16,752 | 2,207 | 213 |
| April | 20,269 | 2,064 | 15,777 | 2,212 | 216 |
| May | 21,295 | 2,214 | 16,658 | 2,206 | 218 |
| June | 20,934 | 2,082 | 16,494 | 2,147 | 211 |
| July | 22,588 | 2,282 | 17,909 | 2,170 | 227 |
| August | 22,750 | 2,316 | 17,901 | 2,317 | 216 |
| September | 21,436 | 2,055 | 16,958 | 2,232 | 190 |
| October | 22,691 | 2,264 | 17,890 | 2,320 | 217 |
| November | 21,714 | 2,102 | 17,036 | 2,349 | 227 |
| December | 23,347 | 2,115 | 18,747 | 2,240 | 245 |
| 2013 | | | | | |
| January | 22,510 | 2,169 | 17,431 | 2,527 | 383 |
| February | 20,125 | 1,962 | 15,692 | 2,128 | 342 |
| March | 23,355 | 2,302 | 18,267 | 2,408 | 378 |
| April | 21,542 | 2,261 | 16,939 | 1,979 | 364 |
| May | 23,361 | 2,317 | 18,263 | 2,383 | 398 |
| June | 22,693 | 2,168 | 17,682 | 2,443 | 400 |
| July | 23,286 | 2,109 | 18,267 | 2,508 | 402 |
| August | 24,522 | 2,964 | 18,617 | 2,552 | 390 |
| September | 22,744 | 2,272 | 17,671 | 2,402 | 400 |
| October | 22,261 | 2,286 | 17,096 | 2,467 | 413 |
| November | 22,764 | 2,210 | 17,829 | 2,290 | 434 |
| December | 23,635 | 2,241 | 18,448 | 2,479 | 466 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.6.D. Landfill Gas: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 65,770 | 3,930 | 59,089 | 1,753 | 998 |
| 2004 | 69,331 | 5,373 | 60,514 | 2,093 | 1,351 |
| 2005 | 67,902 | 5,650 | 58,624 | 2,360 | 1,269 |
| 2006 | 75,970 | 8,287 | 63,950 | 3,388 | 345 |
| 2007 | 79,712 | 8,620 | 68,432 | 2,344 | 316 |
| 2008 | 94,215 | 10,242 | 81,029 | 2,668 | 276 |
| 2009 | 99,821 | 9,748 | 86,773 | 2,999 | 301 |
| 2010 | 105,835 | 10,029 | 92,763 | 2,837 | 205 |
| 2011 | 112,538 | 11,146 | 89,857 | 11,332 | 203 |
| 2012 | 124,297 | 12,721 | 99,938 | 10,356 | 1,282 |
| 2013 | 132,766 | 13,819 | 105,330 | 11,290 | 2,327 |
| 2011 | | | | | |
| January | 9,090 | 862 | 7,268 | 943 | 16 |
| February | 8,461 | 801 | 6,752 | 893 | 14 |
| March | 9,138 | 858 | 7,279 | 987 | 15 |
| April | 8,588 | 836 | 6,851 | 886 | 16 |
| May | 9,079 | 861 | 7,261 | 940 | 18 |
| June | 9,517 | 873 | 7,656 | 970 | 18 |
| July | 9,864 | 929 | 7,900 | 1,018 | 17 |
| August | 10,041 | 986 | 8,007 | 1,029 | 20 |
| September | 9,368 | 866 | 7,520 | 964 | 17 |
| October | 9,420 | 1,095 | 7,438 | 870 | 17 |
| November | 9,867 | 1,091 | 7,853 | 903 | 19 |
| December | 10,105 | 1,086 | 8,073 | 929 | 17 |
| 2012 | | | | | |
| January | 10,348 | 952 | 8,394 | 895 | 108 |
| February | 9,312 | 929 | 7,443 | 837 | 103 |
| March | 10,118 | 992 | 8,185 | 836 | 105 |
| April | 9,693 | 1,052 | 7,694 | 840 | 106 |
| May | 10,200 | 1,117 | 8,135 | 840 | 107 |
| June | 10,069 | 1,051 | 8,092 | 823 | 104 |
| July | 10,872 | 1,160 | 8,757 | 843 | 111 |
| August | 10,929 | 1,163 | 8,757 | 904 | 106 |
| September | 10,264 | 1,043 | 8,269 | 858 | 93 |
| October | 10,871 | 1,145 | 8,729 | 890 | 106 |
| November | 10,412 | 1,052 | 8,344 | 904 | 112 |
| December | 11,208 | 1,065 | 9,138 | 885 | 121 |
| 2013 | | | | | |
| January | 10,911 | 1,101 | 8,635 | 987 | 189 |
| February | 9,771 | 991 | 7,773 | 839 | 168 |
| March | 11,389 | 1,173 | 9,073 | 957 | 186 |
| April | 10,561 | 1,150 | 8,427 | 804 | 180 |
| May | 11,438 | 1,174 | 9,113 | 954 | 197 |
| June | 11,049 | 1,090 | 8,787 | 975 | 197 |
| July | 11,374 | 1,079 | 9,094 | 1,003 | 198 |
| August | 11,941 | 1,502 | 9,234 | 1,013 | 192 |
| September | 11,072 | 1,154 | 8,785 | 941 | 192 |
| October | 10,767 | 1,159 | 8,448 | 963 | 198 |
| November | 11,036 | 1,116 | 8,818 | 894 | 208 |
| December | 11,457 | 1,131 | 9,143 | 961 | 223 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

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Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.6.E. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 500 | 0 | 61 | 0 | 439 |
| 2004 | 1,158 | 0 | 415 | 5 | 738 |
| 2005 | 994 | 0 | 519 | 212 | 263 |
| 2006 | 1,034 | 0 | 267 | 549 | 218 |
| 2007 | 985 | 0 | 226 | 532 | 228 |
| 2008 | 552 | 0 | 271 | 211 | 70 |
| 2009 | 440 | 0 | 313 | 91 | 37 |
| 2010 | 847 | 0 | 643 | 174 | 30 |
| 2011 | 1,635 | 0 | 1,422 | 165 | 48 |
| 2012 | 1,630 | 0 | 1,441 | 156 | 32 |
| 2013 | 414 | 0 | 132 | 206 | 76 |
| 2011 | | | | | |
| January | 160 | 0 | 142 | 14 | 4 |
| February | 143 | 0 | 127 | 13 | 3 |
| March | 141 | 0 | 123 | 14 | 3 |
| April | 123 | 0 | 105 | 14 | 4 |
| May | 122 | 0 | 104 | 14 | 4 |
| June | 126 | 0 | 108 | 14 | 4 |
| July | 129 | 0 | 112 | 13 | 4 |
| August | 145 | 0 | 127 | 13 | 5 |
| September | 144 | 0 | 126 | 14 | 4 |
| October | 157 | 0 | 138 | 15 | 4 |
| November | 86 | 0 | 67 | 14 | 5 |
| December | 160 | 0 | 144 | 12 | 4 |
| 2012 | | | | | |
| January | 157 | 0 | 141 | 14 | 2 |
| February | 149 | 0 | 133 | 14 | 2 |
| March | 124 | 0 | 108 | 14 | 2 |
| April | 130 | 0 | 114 | 13 | 3 |
| May | 136 | 0 | 119 | 13 | 3 |
| June | 108 | 0 | 92 | 13 | 3 |
| July | 151 | 0 | 134 | 13 | 3 |
| August | 133 | 0 | 118 | 11 | 3 |
| September | 146 | 0 | 132 | 11 | 3 |
| October | 153 | 0 | 137 | 13 | 3 |
| November | 94 | 0 | 77 | 15 | 2 |
| December | 149 | 0 | 134 | 12 | 3 |
| 2013 | | | | | |
| January | 32 | 0 | 9 | 17 | 6 |
| February | 32 | 0 | 11 | 15 | 6 |
| March | 30 | 0 | 12 | 12 | 7 |
| April | 38 | 0 | 14 | 18 | 6 |
| May | 43 | 0 | 17 | 19 | 6 |
| June | 39 | 0 | 15 | 18 | 7 |
| July | 43 | 0 | 17 | 19 | 7 |
| August | 38 | 0 | 13 | 18 | 7 |
| September | 32 | 0 | 9 | 17 | 6 |
| October | 31 | 0 | 8 | 17 | 6 |
| November | 27 | 0 | 2 | 18 | 6 |
| December | 29 | 0 | 4 | 18 | 7 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.6.F. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 66,270 | 3,930 | 59,149 | 1,753 | 1,438 |
| 2004 | 70,489 | 5,373 | 60,929 | 2,098 | 2,089 |
| 2005 | 68,897 | 5,650 | 59,144 | 2,571 | 1,532 |
| 2006 | 77,004 | 8,287 | 64,217 | 3,937 | 563 |
| 2007 | 80,697 | 8,620 | 68,657 | 2,875 | 544 |
| 2008 | 94,768 | 10,242 | 81,300 | 2,879 | 346 |
| 2009 | 100,261 | 9,748 | 87,086 | 3,089 | 337 |
| 2010 | 106,681 | 10,029 | 93,405 | 3,011 | 236 |
| 2011 | 114,173 | 11,146 | 91,279 | 11,497 | 251 |
| 2012 | 125,927 | 12,721 | 101,379 | 10,512 | 1,315 |
| 2013 | 133,180 | 13,819 | 105,462 | 11,497 | 2,403 |
| 2011 | | | | | |
| January | 9,250 | 862 | 7,411 | 957 | 20 |
| February | 8,604 | 801 | 6,879 | 907 | 17 |
| March | 9,278 | 858 | 7,401 | 1,001 | 18 |
| April | 8,711 | 836 | 6,956 | 899 | 19 |
| May | 9,201 | 861 | 7,365 | 954 | 22 |
| June | 9,644 | 873 | 7,764 | 983 | 23 |
| July | 9,993 | 929 | 8,012 | 1,031 | 21 |
| August | 10,186 | 986 | 8,133 | 1,042 | 24 |
| September | 9,512 | 866 | 7,646 | 978 | 22 |
| October | 9,577 | 1,095 | 7,575 | 885 | 21 |
| November | 9,953 | 1,091 | 7,921 | 918 | 24 |
| December | 10,265 | 1,086 | 8,216 | 942 | 21 |
| 2012 | | | | | |
| January | 10,505 | 952 | 8,535 | 909 | 110 |
| February | 9,461 | 929 | 7,577 | 851 | 105 |
| March | 10,243 | 992 | 8,293 | 850 | 107 |
| April | 9,823 | 1,052 | 7,809 | 853 | 109 |
| May | 10,335 | 1,117 | 8,255 | 854 | 110 |
| June | 10,177 | 1,051 | 8,184 | 836 | 106 |
| July | 11,022 | 1,160 | 8,892 | 856 | 115 |
| August | 11,062 | 1,163 | 8,875 | 915 | 109 |
| September | 10,410 | 1,043 | 8,401 | 869 | 96 |
| October | 11,024 | 1,145 | 8,866 | 903 | 109 |
| November | 10,507 | 1,052 | 8,421 | 919 | 114 |
| December | 11,357 | 1,065 | 9,272 | 897 | 123 |
| 2013 | | | | | |
| January | 10,943 | 1,101 | 8,644 | 1,004 | 195 |
| February | 9,803 | 991 | 7,784 | 853 | 174 |
| March | 11,420 | 1,173 | 9,084 | 969 | 193 |
| April | 10,598 | 1,150 | 8,441 | 822 | 185 |
| May | 11,480 | 1,174 | 9,130 | 974 | 202 |
| June | 11,088 | 1,090 | 8,802 | 992 | 204 |
| July | 11,418 | 1,079 | 9,112 | 1,022 | 205 |
| August | 11,979 | 1,502 | 9,247 | 1,031 | 199 |
| September | 11,104 | 1,154 | 8,794 | 958 | 199 |
| October | 10,798 | 1,159 | 8,455 | 980 | 204 |
| November | 11,063 | 1,116 | 8,821 | 913 | 214 |
| December | 11,486 | 1,131 | 9,147 | 979 | 230 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.7.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Thousand Tons)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 21,196 | 695 | 18,300 | 2,087 | 115 |
| 2004 | 19,587 | 444 | 17,308 | 1,811 | 24 |
| 2005 | 19,370 | 560 | 17,033 | 1,753 | 25 |
| 2006 | 19,629 | 500 | 17,343 | 1,761 | 25 |
| 2007 | 19,576 | 553 | 17,116 | 1,785 | 122 |
| 2008 | 19,805 | 509 | 17,487 | 1,809 | 0 |
| 2009 | 19,669 | 465 | 17,048 | 2,155 | 0 |
| 2010 | 19,437 | 402 | 16,802 | 2,233 | 0 |
| 2011 | 16,972 | 388 | 14,625 | 1,955 | 4 |
| 2012 | 16,968 | 418 | 14,235 | 2,304 | 12 |
| 2013 | 17,007 | 456 | 14,057 | 2,485 | 8 |
| 2011 | | | | | |
| January | 1,282 | 26 | 1,100 | 156 | 0 |
| February | 1,206 | 23 | 1,046 | 136 | 0 |
| March | 1,412 | 29 | 1,229 | 154 | 0 |
| April | 1,387 | 31 | 1,201 | 156 | 0 |
| May | 1,440 | 36 | 1,227 | 177 | 0 |
| June | 1,482 | 38 | 1,274 | 170 | 0 |
| July | 1,514 | 36 | 1,305 | 173 | 1 |
| August | 1,481 | 37 | 1,274 | 170 | 1 |
| September | 1,429 | 36 | 1,226 | 166 | 1 |
| October | 1,445 | 34 | 1,241 | 169 | 1 |
| November | 1,422 | 30 | 1,226 | 165 | 1 |
| December | 1,472 | 31 | 1,275 | 164 | 1 |
| 2012 | | | | | |
| January | 1,361 | 30 | 1,147 | 183 | 1 |
| February | 1,274 | 27 | 1,067 | 179 | 1 |
| March | 1,380 | 36 | 1,151 | 192 | 0 |
| April | 1,362 | 38 | 1,134 | 189 | 1 |
| May | 1,485 | 41 | 1,235 | 207 | 1 |
| June | 1,473 | 37 | 1,238 | 196 | 1 |
| July | 1,519 | 35 | 1,284 | 199 | 1 |
| August | 1,468 | 40 | 1,232 | 195 | 1 |
| September | 1,389 | 30 | 1,161 | 197 | 1 |
| October | 1,407 | 38 | 1,174 | 194 | 1 |
| November | 1,398 | 34 | 1,180 | 182 | 1 |
| December | 1,454 | 31 | 1,231 | 190 | 1 |
| 2013 | | | | | |
| January | 1,328 | 32 | 1,115 | 181 | 0 |
| February | 1,199 | 30 | 1,000 | 169 | 0 |
| March | 1,411 | 31 | 1,175 | 205 | 1 |
| April | 1,371 | 43 | 1,121 | 206 | 1 |
| May | 1,480 | 43 | 1,218 | 218 | 1 |
| June | 1,503 | 40 | 1,242 | 220 | 1 |
| July | 1,549 | 44 | 1,278 | 226 | 1 |
| August | 1,478 | 40 | 1,213 | 224 | 1 |
| September | 1,408 | 38 | 1,154 | 216 | 1 |
| October | 1,403 | 41 | 1,155 | 206 | 0 |
| November | 1,350 | 40 | 1,107 | 203 | 0 |
| December | 1,528 | 35 | 1,280 | 213 | 1 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.7.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Thousand Tons)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 1,358 | 0 | 311 | 865 | 182 |
| 2004 | 2,743 | 0 | 651 | 1,628 | 464 |
| 2005 | 2,719 | 0 | 623 | 1,536 | 560 |
| 2006 | 2,840 | 0 | 725 | 1,595 | 520 |
| 2007 | 2,219 | 0 | 768 | 1,136 | 315 |
| 2008 | 2,328 | 0 | 806 | 1,514 | 8 |
| 2009 | 2,426 | 0 | 823 | 1,466 | 137 |
| 2010 | 2,287 | 0 | 819 | 1,316 | 152 |
| 2011 | 2,044 | 0 | 742 | 1,148 | 154 |
| 2012 | 1,986 | 0 | 522 | 1,273 | 190 |
| 2013 | 1,865 | 0 | 517 | 1,160 | 187 |
| 2011 | | | | | |
| January | 158 | 0 | 73 | 79 | 6 |
| February | 146 | 0 | 62 | 78 | 6 |
| March | 167 | 0 | 68 | 86 | 12 |
| April | 146 | 0 | 48 | 86 | 12 |
| May | 175 | 0 | 69 | 92 | 13 |
| June | 177 | 0 | 63 | 101 | 12 |
| July | 167 | 0 | 60 | 95 | 12 |
| August | 185 | 0 | 58 | 110 | 17 |
| September | 180 | 0 | 62 | 102 | 16 |
| October | 174 | 0 | 61 | 96 | 18 |
| November | 187 | 0 | 56 | 114 | 17 |
| December | 181 | 0 | 61 | 107 | 13 |
| 2012 | | | | | |
| January | 162 | 0 | 42 | 105 | 15 |
| February | 154 | 0 | 40 | 98 | 15 |
| March | 176 | 0 | 61 | 100 | 15 |
| April | 163 | 0 | 43 | 104 | 17 |
| May | 163 | 0 | 39 | 106 | 18 |
| June | 158 | 0 | 39 | 102 | 16 |
| July | 168 | 0 | 40 | 113 | 15 |
| August | 173 | 0 | 42 | 115 | 16 |
| September | 166 | 0 | 46 | 104 | 16 |
| October | 177 | 0 | 46 | 114 | 17 |
| November | 156 | 0 | 44 | 98 | 14 |
| December | 170 | 0 | 41 | 114 | 15 |
| 2013 | | | | | |
| January | 156 | 0 | 42 | 98 | 17 |
| February | 143 | 0 | 40 | 91 | 12 |
| March | 167 | 0 | 47 | 104 | 16 |
| April | 164 | 0 | 40 | 109 | 15 |
| May | 153 | 0 | 32 | 105 | 16 |
| June | 167 | 0 | 47 | 103 | 17 |
| July | 158 | 0 | 45 | 95 | 18 |
| August | 155 | 0 | 44 | 93 | 17 |
| September | 152 | 0 | 39 | 97 | 16 |
| October | 150 | 0 | 46 | 91 | 13 |
| November | 141 | 0 | 46 | 82 | 14 |
| December | 159 | 0 | 48 | 94 | 16 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.7.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Thousand Tons)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 22,554 | 695 | 18,611 | 2,952 | 296 |
| 2004 | 22,330 | 444 | 17,959 | 3,439 | 488 |
| 2005 | 22,089 | 560 | 17,655 | 3,289 | 584 |
| 2006 | 22,469 | 500 | 18,068 | 3,356 | 545 |
| 2007 | 21,796 | 553 | 17,885 | 2,921 | 437 |
| 2008 | 22,134 | 509 | 18,294 | 3,323 | 8 |
| 2009 | 22,095 | 465 | 17,872 | 3,622 | 137 |
| 2010 | 21,725 | 402 | 17,621 | 3,549 | 152 |
| 2011 | 19,016 | 388 | 15,367 | 3,103 | 158 |
| 2012 | 18,954 | 418 | 14,757 | 3,577 | 203 |
| 2013 | 18,871 | 456 | 14,574 | 3,646 | 195 |
| 2011 | | | | | |
| January | 1,441 | 26 | 1,173 | 235 | 6 |
| February | 1,352 | 23 | 1,108 | 214 | 6 |
| March | 1,579 | 29 | 1,298 | 240 | 12 |
| April | 1,534 | 31 | 1,248 | 242 | 12 |
| May | 1,615 | 36 | 1,296 | 270 | 13 |
| June | 1,659 | 38 | 1,338 | 271 | 12 |
| July | 1,681 | 36 | 1,365 | 268 | 13 |
| August | 1,667 | 37 | 1,332 | 279 | 18 |
| September | 1,609 | 36 | 1,288 | 268 | 16 |
| October | 1,619 | 34 | 1,302 | 265 | 18 |
| November | 1,609 | 30 | 1,283 | 279 | 17 |
| December | 1,653 | 31 | 1,336 | 272 | 14 |
| 2012 | | | | | |
| January | 1,523 | 30 | 1,189 | 288 | 16 |
| February | 1,427 | 27 | 1,106 | 278 | 16 |
| March | 1,557 | 36 | 1,212 | 293 | 15 |
| April | 1,525 | 38 | 1,177 | 293 | 18 |
| May | 1,648 | 41 | 1,274 | 313 | 20 |
| June | 1,631 | 37 | 1,277 | 299 | 18 |
| July | 1,688 | 35 | 1,325 | 311 | 16 |
| August | 1,641 | 40 | 1,274 | 310 | 17 |
| September | 1,555 | 30 | 1,207 | 301 | 18 |
| October | 1,583 | 38 | 1,220 | 308 | 18 |
| November | 1,554 | 34 | 1,224 | 280 | 15 |
| December | 1,623 | 31 | 1,272 | 304 | 16 |
| 2013 | | | | | |
| January | 1,484 | 32 | 1,157 | 278 | 17 |
| February | 1,342 | 30 | 1,040 | 259 | 13 |
| March | 1,579 | 31 | 1,222 | 309 | 17 |
| April | 1,535 | 43 | 1,161 | 315 | 16 |
| May | 1,633 | 43 | 1,250 | 323 | 17 |
| June | 1,669 | 40 | 1,289 | 322 | 18 |
| July | 1,707 | 44 | 1,323 | 322 | 18 |
| August | 1,633 | 40 | 1,257 | 317 | 18 |
| September | 1,559 | 38 | 1,193 | 312 | 17 |
| October | 1,552 | 41 | 1,201 | 297 | 13 |
| November | 1,491 | 40 | 1,152 | 284 | 14 |
| December | 1,687 | 35 | 1,328 | 307 | 17 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.7.D. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 148,110 | 5,766 | 128,947 | 13,095 | 302 |
| 2004 | 141,577 | 3,705 | 124,815 | 12,909 | 146 |
| 2005 | 144,339 | 4,724 | 126,529 | 12,923 | 164 |
| 2006 | 146,987 | 4,078 | 129,779 | 12,964 | 165 |
| 2007 | 146,308 | 4,557 | 127,826 | 13,043 | 881 |
| 2008 | 148,452 | 4,476 | 130,041 | 13,934 | 0 |
| 2009 | 146,971 | 3,989 | 126,649 | 16,333 | 0 |
| 2010 | 144,934 | 3,322 | 124,437 | 17,176 | 0 |
| 2011 | 135,241 | 3,433 | 115,841 | 15,933 | 34 |
| 2012 | 135,735 | 3,910 | 113,418 | 18,307 | 100 |
| 2013 | 135,764 | 4,459 | 111,430 | 19,811 | 64 |
| 2011 | | | | | |
| January | 10,271 | 231 | 8,780 | 1,260 | 0 |
| February | 9,567 | 207 | 8,254 | 1,106 | 0 |
| March | 11,176 | 256 | 9,690 | 1,231 | 0 |
| April | 11,046 | 277 | 9,496 | 1,273 | 0 |
| May | 11,442 | 319 | 9,685 | 1,438 | 0 |
| June | 11,809 | 336 | 10,079 | 1,395 | 0 |
| July | 12,098 | 313 | 10,338 | 1,441 | 5 |
| August | 11,731 | 326 | 10,033 | 1,365 | 7 |
| September | 11,301 | 316 | 9,652 | 1,327 | 5 |
| October | 11,551 | 304 | 9,850 | 1,392 | 5 |
| November | 11,424 | 266 | 9,798 | 1,355 | 6 |
| December | 11,825 | 282 | 10,186 | 1,351 | 6 |
| 2012 | | | | | |
| January | 10,943 | 271 | 9,208 | 1,455 | 9 |
| February | 10,284 | 261 | 8,563 | 1,455 | 5 |
| March | 11,022 | 317 | 9,169 | 1,532 | 4 |
| April | 10,986 | 390 | 9,060 | 1,527 | 8 |
| May | 11,856 | 427 | 9,792 | 1,627 | 10 |
| June | 11,681 | 318 | 9,813 | 1,542 | 8 |
| July | 12,107 | 332 | 10,184 | 1,583 | 8 |
| August | 11,638 | 350 | 9,728 | 1,551 | 10 |
| September | 11,021 | 286 | 9,181 | 1,544 | 9 |
| October | 11,242 | 348 | 9,346 | 1,540 | 9 |
| November | 11,318 | 341 | 9,527 | 1,440 | 10 |
| December | 11,637 | 268 | 9,847 | 1,512 | 9 |
| 2013 | | | | | |
| January | 10,655 | 297 | 8,917 | 1,437 | 4 |
| February | 9,619 | 307 | 7,962 | 1,347 | 3 |
| March | 11,276 | 313 | 9,313 | 1,643 | 7 |
| April | 10,910 | 433 | 8,814 | 1,658 | 5 |
| May | 11,803 | 452 | 9,593 | 1,752 | 6 |
| June | 11,852 | 360 | 9,756 | 1,730 | 7 |
| July | 12,190 | 435 | 9,962 | 1,786 | 7 |
| August | 11,705 | 405 | 9,521 | 1,771 | 8 |
| September | 11,270 | 377 | 9,174 | 1,712 | 7 |
| October | 11,292 | 367 | 9,256 | 1,665 | 4 |
| November | 10,950 | 381 | 8,930 | 1,637 | 3 |
| December | 12,242 | 334 | 10,229 | 1,674 | 5 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.7.E. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 13,694 | 0 | 3,118 | 8,858 | 1,718 |
| 2004 | 19,991 | 0 | 4,746 | 12,295 | 2,950 |
| 2005 | 20,296 | 0 | 4,551 | 11,991 | 3,754 |
| 2006 | 21,729 | 0 | 5,347 | 12,654 | 3,728 |
| 2007 | 16,174 | 0 | 5,683 | 8,350 | 2,141 |
| 2008 | 18,272 | 0 | 6,039 | 12,174 | 59 |
| 2009 | 18,785 | 0 | 6,229 | 11,535 | 1,021 |
| 2010 | 17,502 | 0 | 6,031 | 10,333 | 1,138 |
| 2011 | 16,766 | 0 | 5,807 | 9,731 | 1,227 |
| 2012 | 16,310 | 0 | 4,180 | 10,615 | 1,515 |
| 2013 | 15,168 | 0 | 4,145 | 9,530 | 1,493 |
| 2011 | | | | | |
| January | 1,262 | 0 | 555 | 661 | 46 |
| February | 1,184 | 0 | 480 | 653 | 50 |
| March | 1,363 | 0 | 538 | 728 | 98 |
| April | 1,203 | 0 | 380 | 729 | 94 |
| May | 1,433 | 0 | 546 | 786 | 102 |
| June | 1,459 | 0 | 497 | 863 | 98 |
| July | 1,369 | 0 | 469 | 804 | 97 |
| August | 1,533 | 0 | 460 | 934 | 139 |
| September | 1,480 | 0 | 488 | 866 | 126 |
| October | 1,433 | 0 | 475 | 818 | 140 |
| November | 1,548 | 0 | 443 | 971 | 133 |
| December | 1,499 | 0 | 477 | 918 | 104 |
| 2012 | | | | | |
| January | 1,350 | 0 | 338 | 893 | 118 |
| February | 1,273 | 0 | 321 | 829 | 123 |
| March | 1,450 | 0 | 494 | 837 | 120 |
| April | 1,341 | 0 | 341 | 867 | 132 |
| May | 1,331 | 0 | 307 | 877 | 146 |
| June | 1,288 | 0 | 312 | 845 | 131 |
| July | 1,373 | 0 | 323 | 930 | 120 |
| August | 1,415 | 0 | 337 | 949 | 130 |
| September | 1,351 | 0 | 364 | 856 | 131 |
| October | 1,453 | 0 | 365 | 955 | 134 |
| November | 1,275 | 0 | 350 | 815 | 110 |
| December | 1,410 | 0 | 328 | 963 | 119 |
| 2013 | | | | | |
| January | 1,291 | 0 | 337 | 821 | 132 |
| February | 1,178 | 0 | 320 | 760 | 99 |
| March | 1,365 | 0 | 379 | 860 | 126 |
| April | 1,340 | 0 | 323 | 898 | 119 |
| May | 1,242 | 0 | 259 | 854 | 129 |
| June | 1,353 | 0 | 376 | 839 | 138 |
| July | 1,285 | 0 | 361 | 784 | 140 |
| August | 1,248 | 0 | 354 | 755 | 139 |
| September | 1,230 | 0 | 314 | 789 | 127 |
| October | 1,207 | 0 | 368 | 736 | 103 |
| November | 1,139 | 0 | 365 | 663 | 111 |
| December | 1,290 | 0 | 389 | 770 | 130 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.7.F. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 161,803 | 5,766 | 132,065 | 21,953 | 2,020 |
| 2004 | 161,567 | 3,705 | 129,562 | 25,204 | 3,096 |
| 2005 | 164,635 | 4,724 | 131,080 | 24,914 | 3,918 |
| 2006 | 168,716 | 4,078 | 135,127 | 25,618 | 3,893 |
| 2007 | 162,482 | 4,557 | 133,509 | 21,393 | 3,022 |
| 2008 | 166,723 | 4,476 | 136,080 | 26,108 | 59 |
| 2009 | 165,755 | 3,989 | 132,877 | 27,868 | 1,021 |
| 2010 | 162,436 | 3,322 | 130,467 | 27,509 | 1,138 |
| 2011 | 152,007 | 3,433 | 121,648 | 25,664 | 1,262 |
| 2012 | 152,045 | 3,910 | 117,598 | 28,923 | 1,614 |
| 2013 | 150,932 | 4,459 | 115,574 | 29,342 | 1,557 |
| 2011 | | | | | |
| January | 11,533 | 231 | 9,335 | 1,920 | 46 |
| February | 10,751 | 207 | 8,734 | 1,759 | 50 |
| March | 12,539 | 256 | 10,228 | 1,958 | 98 |
| April | 12,249 | 277 | 9,876 | 2,002 | 94 |
| May | 12,875 | 319 | 10,231 | 2,224 | 102 |
| June | 13,268 | 336 | 10,576 | 2,258 | 98 |
| July | 13,467 | 313 | 10,807 | 2,245 | 101 |
| August | 13,264 | 326 | 10,493 | 2,299 | 146 |
| September | 12,781 | 316 | 10,140 | 2,193 | 131 |
| October | 12,984 | 304 | 10,325 | 2,210 | 146 |
| November | 12,972 | 266 | 10,241 | 2,326 | 139 |
| December | 13,324 | 282 | 10,663 | 2,269 | 110 |
| 2012 | | | | | |
| January | 12,292 | 271 | 9,546 | 2,348 | 127 |
| February | 11,557 | 261 | 8,884 | 2,283 | 129 |
| March | 12,472 | 317 | 9,663 | 2,369 | 123 |
| April | 12,327 | 390 | 9,402 | 2,395 | 140 |
| May | 13,187 | 427 | 10,100 | 2,504 | 156 |
| June | 12,969 | 318 | 10,125 | 2,386 | 140 |
| July | 13,480 | 332 | 10,507 | 2,513 | 128 |
| August | 13,053 | 350 | 10,065 | 2,500 | 139 |
| September | 12,372 | 286 | 9,545 | 2,400 | 140 |
| October | 12,695 | 348 | 9,711 | 2,494 | 142 |
| November | 12,593 | 341 | 9,876 | 2,255 | 120 |
| December | 13,047 | 268 | 10,175 | 2,475 | 129 |
| 2013 | | | | | |
| January | 11,945 | 297 | 9,254 | 2,258 | 136 |
| February | 10,797 | 307 | 8,282 | 2,106 | 102 |
| March | 12,641 | 313 | 9,693 | 2,503 | 132 |
| April | 12,250 | 433 | 9,137 | 2,556 | 124 |
| May | 13,046 | 452 | 9,852 | 2,606 | 134 |
| June | 13,206 | 360 | 10,132 | 2,569 | 146 |
| July | 13,475 | 435 | 10,323 | 2,570 | 147 |
| August | 12,953 | 405 | 9,875 | 2,526 | 147 |
| September | 12,500 | 377 | 9,488 | 2,502 | 134 |
| October | 12,500 | 367 | 9,625 | 2,402 | 106 |
| November | 12,089 | 381 | 9,295 | 2,300 | 114 |
| December | 13,531 | 334 | 10,618 | 2,444 | 135 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.8.D. Other Waste Biomass: Consumption for Electricity Generation, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 34,775 | 2,456 | 15,859 | 4,566 | 11,894 |
| 2004 | 19,215 | 2,014 | 9,240 | 4,308 | 3,654 |
| 2005 | 17,852 | 2,485 | 7,365 | 4,677 | 3,325 |
| 2006 | 17,727 | 2,611 | 7,788 | 4,436 | 2,893 |
| 2007 | 19,083 | 2,992 | 8,861 | 4,049 | 3,181 |
| 2008 | 24,288 | 3,409 | 12,745 | 3,684 | 4,450 |
| 2009 | 24,847 | 3,679 | 13,231 | 3,760 | 4,177 |
| 2010 | 29,996 | 3,668 | 14,449 | 3,790 | 8,090 |
| 2011 | 30,771 | 4,488 | 16,115 | 3,816 | 6,352 |
| 2012 | 30,342 | 4,191 | 15,740 | 4,016 | 6,395 |
| 2013 | 29,385 | 2,432 | 13,671 | 4,979 | 8,303 |
| 2011 | | | | | |
| January | 2,484 | 252 | 1,398 | 323 | 511 |
| February | 2,571 | 461 | 1,306 | 312 | 491 |
| March | 2,528 | 436 | 1,231 | 331 | 529 |
| April | 2,320 | 319 | 1,195 | 296 | 510 |
| May | 2,255 | 355 | 1,070 | 321 | 509 |
| June | 2,499 | 411 | 1,261 | 321 | 506 |
| July | 2,718 | 374 | 1,492 | 327 | 525 |
| August | 2,831 | 427 | 1,498 | 340 | 566 |
| September | 2,566 | 422 | 1,305 | 303 | 537 |
| October | 2,652 | 372 | 1,373 | 309 | 598 |
| November | 2,597 | 272 | 1,453 | 312 | 560 |
| December | 2,751 | 388 | 1,532 | 321 | 511 |
| 2012 | | | | | |
| January | 2,405 | 303 | 1,352 | 347 | 404 |
| February | 2,297 | 330 | 1,187 | 337 | 443 |
| March | 2,567 | 370 | 1,308 | 336 | 553 |
| April | 2,456 | 366 | 1,264 | 308 | 518 |
| May | 2,403 | 396 | 1,163 | 325 | 518 |
| June | 2,249 | 435 | 1,122 | 283 | 409 |
| July | 2,373 | 332 | 1,188 | 309 | 543 |
| August | 2,765 | 359 | 1,445 | 352 | 609 |
| September | 2,534 | 412 | 1,298 | 331 | 493 |
| October | 2,754 | 358 | 1,406 | 341 | 649 |
| November | 2,796 | 243 | 1,529 | 372 | 651 |
| December | 2,743 | 286 | 1,476 | 375 | 606 |
| 2013 | | | | | |
| January | 2,362 | 233 | 1,103 | 405 | 621 |
| February | 2,082 | 151 | 1,021 | 357 | 553 |
| March | 2,415 | 162 | 1,225 | 412 | 617 |
| April | 2,485 | 205 | 1,148 | 394 | 738 |
| May | 2,367 | 231 | 1,059 | 414 | 663 |
| June | 2,174 | 173 | 945 | 401 | 655 |
| July | 2,423 | 211 | 1,062 | 428 | 722 |
| August | 2,462 | 203 | 1,063 | 456 | 740 |
| September | 2,320 | 209 | 1,044 | 373 | 694 |
| October | 2,491 | 212 | 1,130 | 410 | 739 |
| November | 2,851 | 197 | 1,435 | 452 | 767 |
| December | 2,953 | 246 | 1,436 | 477 | 795 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.8.E. Other Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 29,854 | 0 | 10,655 | 757 | 18,442 |
| 2004 | 30,228 | 0 | 12,055 | 2,627 | 15,547 |
| 2005 | 38,010 | 0 | 10,275 | 2,086 | 25,649 |
| 2006 | 36,966 | 0 | 8,561 | 2,318 | 26,087 |
| 2007 | 41,757 | 0 | 10,294 | 2,643 | 28,820 |
| 2008 | 41,851 | 0 | 9,674 | 1,542 | 30,635 |
| 2009 | 41,810 | 0 | 10,355 | 1,638 | 29,817 |
| 2010 | 47,153 | 0 | 8,436 | 1,648 | 37,070 |
| 2011 | 43,483 | 0 | 6,460 | 1,566 | 35,458 |
| 2012 | 46,863 | 0 | 6,914 | 1,796 | 38,153 |
| 2013 | 62,445 | 0 | 6,768 | 1,259 | 54,418 |
| 2011 | | | | | |
| January | 4,962 | 0 | 1,040 | 146 | 3,776 |
| February | 4,546 | 0 | 895 | 125 | 3,526 |
| March | 3,858 | 0 | 500 | 126 | 3,233 |
| April | 2,428 | 0 | 228 | 111 | 2,089 |
| May | 2,561 | 0 | 326 | 133 | 2,101 |
| June | 2,671 | 0 | 323 | 135 | 2,213 |
| July | 2,854 | 0 | 431 | 127 | 2,297 |
| August | 2,859 | 0 | 388 | 167 | 2,303 |
| September | 2,896 | 0 | 367 | 99 | 2,430 |
| October | 4,323 | 0 | 486 | 124 | 3,712 |
| November | 4,855 | 0 | 779 | 138 | 3,938 |
| December | 4,670 | 0 | 697 | 134 | 3,839 |
| 2012 | | | | | |
| January | 3,756 | 0 | 748 | 173 | 2,836 |
| February | 4,183 | 0 | 723 | 150 | 3,310 |
| March | 5,158 | 0 | 864 | 142 | 4,153 |
| April | 3,494 | 0 | 226 | 114 | 3,154 |
| May | 2,835 | 0 | 348 | 134 | 2,353 |
| June | 2,478 | 0 | 306 | 125 | 2,048 |
| July | 2,993 | 0 | 257 | 139 | 2,597 |
| August | 2,957 | 0 | 284 | 173 | 2,500 |
| September | 2,814 | 0 | 254 | 163 | 2,397 |
| October | 4,855 | 0 | 651 | 160 | 4,045 |
| November | 5,642 | 0 | 1,079 | 164 | 4,399 |
| December | 5,698 | 0 | 1,175 | 160 | 4,362 |
| 2013 | | | | | |
| January | 5,947 | 0 | 1,327 | 145 | 4,476 |
| February | 5,066 | 0 | 874 | 90 | 4,102 |
| March | 5,451 | 0 | 870 | 107 | 4,474 |
| April | 5,533 | 0 | 395 | 81 | 5,058 |
| May | 4,344 | 0 | 212 | 86 | 4,046 |
| June | 4,065 | 0 | 270 | 100 | 3,696 |
| July | 4,414 | 0 | 216 | 106 | 4,093 |
| August | 4,570 | 0 | 215 | 118 | 4,238 |
| September | 4,086 | 0 | 184 | 114 | 3,789 |
| October | 5,954 | 0 | 649 | 98 | 5,206 |
| November | 6,362 | 0 | 787 | 99 | 5,475 |
| December | 6,653 | 0 | 770 | 116 | 5,767 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.8.F. Other Waste Biomass: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2003 - 2013 (Billion Btus)

| Period | Total (all sectors) | Electric Power Sector | | Commercial Sector | Industrial Sector |
|----------------------|---------------------|-----------------------|-----------------------------|-------------------|-------------------|
| | | Electric Utilities | Independent Power Producers | | |
| Annual Totals | | | | | |
| 2003 | 64,629 | 2,456 | 26,514 | 5,323 | 30,337 |
| 2004 | 49,443 | 2,014 | 21,294 | 6,935 | 19,201 |
| 2005 | 55,862 | 2,485 | 17,640 | 6,763 | 28,974 |
| 2006 | 54,693 | 2,611 | 16,348 | 6,755 | 28,980 |
| 2007 | 60,840 | 2,992 | 19,155 | 6,692 | 32,001 |
| 2008 | 66,139 | 3,409 | 22,419 | 5,227 | 35,085 |
| 2009 | 66,658 | 3,679 | 23,586 | 5,398 | 33,994 |
| 2010 | 77,150 | 3,668 | 22,884 | 5,438 | 45,159 |
| 2011 | 74,255 | 4,488 | 22,574 | 5,382 | 41,810 |
| 2012 | 77,205 | 4,191 | 22,654 | 5,812 | 44,548 |
| 2013 | 91,830 | 2,432 | 20,439 | 6,238 | 62,721 |
| 2011 | | | | | |
| January | 7,445 | 252 | 2,438 | 469 | 4,287 |
| February | 7,117 | 461 | 2,201 | 437 | 4,018 |
| March | 6,386 | 436 | 1,731 | 457 | 3,762 |
| April | 4,748 | 319 | 1,423 | 407 | 2,599 |
| May | 4,816 | 355 | 1,396 | 454 | 2,610 |
| June | 5,170 | 411 | 1,583 | 456 | 2,719 |
| July | 5,573 | 374 | 1,923 | 454 | 2,822 |
| August | 5,690 | 427 | 1,886 | 508 | 2,869 |
| September | 5,462 | 422 | 1,671 | 402 | 2,967 |
| October | 6,974 | 372 | 1,859 | 433 | 4,311 |
| November | 7,452 | 272 | 2,232 | 451 | 4,498 |
| December | 7,421 | 388 | 2,229 | 455 | 4,349 |
| 2012 | | | | | |
| January | 6,162 | 303 | 2,100 | 520 | 3,239 |
| February | 6,480 | 330 | 1,910 | 487 | 3,753 |
| March | 7,725 | 370 | 2,172 | 478 | 4,705 |
| April | 5,950 | 366 | 1,490 | 422 | 3,672 |
| May | 5,237 | 396 | 1,511 | 459 | 2,871 |
| June | 4,727 | 435 | 1,428 | 407 | 2,457 |
| July | 5,365 | 332 | 1,445 | 448 | 3,140 |
| August | 5,723 | 359 | 1,729 | 525 | 3,110 |
| September | 5,348 | 412 | 1,552 | 494 | 2,890 |
| October | 7,609 | 358 | 2,057 | 501 | 4,693 |
| November | 8,438 | 243 | 2,608 | 536 | 5,050 |
| December | 8,441 | 286 | 2,652 | 535 | 4,968 |
| 2013 | | | | | |
| January | 8,309 | 233 | 2,430 | 550 | 5,096 |
| February | 7,149 | 151 | 1,895 | 447 | 4,655 |
| March | 7,866 | 162 | 2,095 | 519 | 5,091 |
| April | 8,018 | 205 | 1,543 | 475 | 5,795 |
| May | 6,711 | 231 | 1,271 | 500 | 4,709 |
| June | 6,239 | 173 | 1,215 | 501 | 4,350 |
| July | 6,837 | 211 | 1,278 | 534 | 4,814 |
| August | 7,032 | 203 | 1,277 | 574 | 4,977 |
| September | 6,406 | 209 | 1,227 | 487 | 4,483 |
| October | 8,445 | 212 | 1,780 | 508 | 5,945 |
| November | 9,212 | 197 | 2,222 | 550 | 6,243 |
| December | 9,606 | 246 | 2,205 | 593 | 6,562 |

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 5.9. Consumption of Coal for Electricity Generation by State by Sector, 2013 and 2012 (Thousand Tons)

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 2,773 | 1,787 | 55.0% | 616 | 520 | 2,144 | 1,257 | 0 | 0 | 13 | 10 |
| Connecticut | 419 | 297 | 41.0% | 0 | 0 | 419 | 297 | 0 | 0 | 0 | 0 |
| Maine | 15 | 11 | 33.0% | 0 | 0 | 7 | 6 | 0 | 0 | 8 | 5 |
| Massachusetts | 1,723 | 959 | 80.0% | 0 | 0 | 1,718 | 954 | 0 | 0 | 5 | 5 |
| New Hampshire | 616 | 520 | 19.0% | 616 | 520 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 44,603 | 44,000 | 1.4% | 1 | 6 | 44,361 | 43,734 | 6 | 4 | 236 | 256 |
| New Jersey | 854 | 833 | 2.5% | 0 | 0 | 854 | 833 | 0 | 0 | 0 | 0 |
| New York | 2,294 | 2,158 | 6.3% | 1 | 6 | 2,224 | 2,083 | 0 | 0 | 69 | 70 |
| Pennsylvania | 41,456 | 41,009 | 1.1% | 0 | 0 | 41,284 | 40,819 | 6 | 4 | 167 | 186 |
| East North Central | 195,548 | 182,280 | 7.3% | 138,501 | 128,058 | 55,912 | 53,050 | 78 | 97 | 1,057 | 1,076 |
| Illinois | 52,610 | 49,162 | 7.0% | 6,261 | 6,377 | 45,735 | 42,132 | 19 | 30 | 595 | 623 |
| Indiana | 46,522 | 46,587 | -0.1% | 43,742 | 43,475 | 2,742 | 3,062 | 32 | 36 | 5 | 14 |
| Michigan | 31,855 | 29,796 | 6.9% | 31,434 | 29,449 | 203 | 212 | 22 | 28 | 196 | 107 |
| Ohio | 40,688 | 37,242 | 9.3% | 33,390 | 29,475 | 7,233 | 7,645 | 4 | 2 | 62 | 121 |
| Wisconsin | 23,874 | 19,494 | 22.0% | 23,674 | 19,283 | 0 | 0 | 1 | 1 | 199 | 210 |
| West North Central | 138,338 | 135,575 | 2.0% | 136,497 | 133,859 | 16 | 0 | 69 | 64 | 1,756 | 1,651 |
| Iowa | 20,421 | 21,638 | -5.6% | 19,517 | 20,747 | 0 | 0 | 39 | 43 | 864 | 848 |
| Kansas | 18,915 | 17,759 | 6.5% | 18,915 | 17,759 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 14,193 | 13,704 | 3.6% | 13,765 | 13,384 | 0 | 0 | 1 | 1 | 426 | 319 |
| Missouri | 44,405 | 42,386 | 4.8% | 44,333 | 42,340 | 16 | 0 | 28 | 21 | 28 | 26 |
| Nebraska | 16,191 | 15,274 | 6.0% | 15,829 | 14,884 | 0 | 0 | 0 | 0 | 361 | 390 |
| North Dakota | 22,366 | 22,862 | -2.2% | 22,289 | 22,795 | 0 | 0 | 0 | 0 | 76 | 68 |
| South Dakota | 1,847 | 1,950 | -5.3% | 1,847 | 1,950 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 117,662 | 116,543 | 1.0% | 96,964 | 96,679 | 20,167 | 19,242 | 21 | 31 | 509 | 591 |
| Delaware | 708 | 677 | 4.7% | 0 | 0 | 708 | 677 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 20,689 | 19,699 | 5.0% | 20,103 | 19,080 | 548 | 567 | 0 | 0 | 38 | 52 |
| Georgia | 20,737 | 20,985 | -1.2% | 20,633 | 20,836 | 0 | 0 | 0 | 0 | 103 | 149 |
| Maryland | 6,816 | 6,981 | -2.4% | 0 | 0 | 6,770 | 6,919 | 9 | 19 | 37 | 43 |
| North Carolina | 19,078 | 20,761 | -8.1% | 18,318 | 20,040 | 695 | 661 | 9 | 8 | 55 | 52 |
| South Carolina | 10,035 | 11,706 | -14.0% | 9,973 | 11,622 | 0 | 17 | 0 | 0 | 62 | 67 |
| Virginia | 9,555 | 6,213 | 54.0% | 9,049 | 5,634 | 399 | 451 | 3 | 4 | 103 | 124 |
| West Virginia | 30,044 | 29,521 | 1.8% | 18,888 | 19,468 | 11,046 | 9,950 | 0 | 0 | 110 | 103 |
| East South Central | 86,724 | 84,979 | 2.1% | 83,259 | 81,613 | 3,169 | 3,081 | 5 | 4 | 291 | 281 |
| Alabama | 24,448 | 23,056 | 6.0% | 24,400 | 22,993 | 0 | 15 | 0 | 0 | 48 | 47 |
| Kentucky | 39,475 | 38,978 | 1.3% | 39,475 | 38,978 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 5,867 | 5,240 | 12.0% | 2,698 | 2,175 | 3,169 | 3,066 | 0 | 0 | 0 | 0 |
| Tennessee | 16,935 | 17,705 | -4.3% | 16,686 | 17,466 | 0 | 0 | 5 | 4 | 243 | 234 |
| West South Central | 154,042 | 147,598 | 4.4% | 78,913 | 76,768 | 74,920 | 70,624 | 0 | 0 | 208 | 207 |
| Arkansas | 18,787 | 17,048 | 10.0% | 16,454 | 14,571 | 2,312 | 2,451 | 0 | 0 | 22 | 25 |
| Louisiana | 13,787 | 14,747 | -6.5% | 6,769 | 8,106 | 7,018 | 6,640 | 0 | 0 | 0 | 0 |
| Oklahoma | 18,980 | 18,499 | 2.6% | 17,596 | 17,115 | 1,198 | 1,201 | 0 | 0 | 186 | 182 |
| Texas | 102,487 | 97,305 | 5.3% | 38,095 | 36,974 | 64,392 | 60,331 | 0 | 0 | 0 | 0 |
| Mountain | 112,695 | 107,089 | 5.2% | 101,207 | 96,176 | 10,990 | 10,421 | 0 | 0 | 498 | 493 |
| Arizona | 23,298 | 21,519 | 8.3% | 23,298 | 21,461 | 0 | 0 | 0 | 0 | 0 | 58 |
| Colorado | 18,695 | 19,025 | -1.7% | 18,661 | 18,983 | 29 | 36 | 0 | 0 | 5 | 5 |
| Idaho | 21 | 18 | 21.0% | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 18 |
| Montana | 9,570 | 9,064 | 5.6% | 292 | 248 | 9,270 | 8,809 | 0 | 0 | 8 | 7 |
| Nevada | 2,933 | 2,258 | 30.0% | 2,188 | 1,630 | 745 | 628 | 0 | 0 | 0 | 0 |
| New Mexico | 14,270 | 14,452 | -1.3% | 14,270 | 14,452 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 15,796 | 14,304 | 10.0% | 15,099 | 13,639 | 430 | 445 | 0 | 0 | 268 | 220 |
| Wyoming | 28,112 | 26,449 | 6.3% | 27,400 | 25,763 | 516 | 502 | 0 | 0 | 196 | 184 |
| Pacific Contiguous | 6,914 | 4,596 | 50.0% | 2,183 | 1,583 | 4,649 | 2,930 | 0 | 0 | 83 | 83 |
| California | 293 | 502 | -42.0% | 0 | 0 | 220 | 428 | 0 | 0 | 73 | 74 |
| Oregon | 2,183 | 1,583 | 38.0% | 2,183 | 1,583 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 4,438 | 2,511 | 77.0% | 0 | 0 | 4,429 | 2,502 | 0 | 0 | 10 | 9 |
| Pacific Noncontiguous | 1,430 | 1,287 | 11.0% | 185 | 206 | 890 | 958 | 334 | 105 | 21 | 17 |
| Alaska | 729 | 530 | 37.0% | 185 | 206 | 210 | 219 | 334 | 105 | 0 | 0 |
| Hawaii | 701 | 757 | -7.4% | 0 | 0 | 680 | 739 | 0 | 0 | 21 | 17 |
| U.S. Total | 860,729 | 825,734 | 4.2% | 638,327 | 615,467 | 217,219 | 205,295 | 513 | 307 | 4,670 | 4,665 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 5.10. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, 2013 and 2012 (Thousand Barrels)

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 2,017 | 891 | 126.0% | 308 | 119 | 1,584 | 650 | 90 | 80 | 35 | 41 |
| Connecticut | 555 | 259 | 114.0% | 11 | 8 | 535 | 247 | 6 | 0 | 2 | 4 |
| Maine | 461 | 197 | 134.0% | 1 | 0 | 424 | 176 | 6 | 6 | 30 | 14 |
| Massachusetts | 713 | 325 | 119.0% | 126 | 30 | 546 | 226 | 39 | 46 | 2 | 22 |
| New Hampshire | 187 | 58 | 224.0% | 135 | 46 | 41 | 0 | 11 | 11 | 0 | 0 |
| Rhode Island | 75 | 31 | 146.0% | 22 | 29 | 38 | 0 | 14 | 1 | 0 | 0 |
| Vermont | 27 | 22 | 24.0% | 13 | 6 | 0 | 0 | 14 | 15 | 0 | 0 |
| Middle Atlantic | 2,559 | 1,720 | 49.0% | 896 | 642 | 1,533 | 986 | 25 | 22 | 105 | 71 |
| New Jersey | 187 | 77 | 143.0% | 1 | 9 | 180 | 67 | 1 | 1 | 4 | 1 |
| New York | 1,705 | 1,053 | 62.0% | 894 | 633 | 721 | 338 | 19 | 17 | 72 | 65 |
| Pennsylvania | 667 | 590 | 13.0% | 1 | 0 | 632 | 582 | 5 | 4 | 29 | 4 |
| East North Central | 1,190 | 1,262 | -5.7% | 954 | 1,058 | 212 | 182 | 4 | 3 | 20 | 18 |
| Illinois | 136 | 137 | -0.7% | 49 | 49 | 87 | 88 | 0 | 0 | 0 | 0 |
| Indiana | 257 | 217 | 18.0% | 246 | 208 | 0 | 0 | 1 | 1 | 9 | 8 |
| Michigan | 259 | 281 | -7.8% | 251 | 273 | 0 | 0 | 2 | 2 | 6 | 6 |
| Ohio | 466 | 526 | -11.0% | 342 | 433 | 121 | 90 | 1 | 0 | 3 | 3 |
| Wisconsin | 72 | 100 | -28.0% | 66 | 95 | 5 | 4 | 0 | 0 | 1 | 1 |
| West North Central | 684 | 634 | 7.8% | 666 | 617 | 11 | 11 | 3 | 2 | 3 | 3 |
| Iowa | 184 | 204 | -10.0% | 181 | 199 | 3 | 4 | 0 | 0 | 0 | 0 |
| Kansas | 109 | 78 | 39.0% | 109 | 78 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 75 | 62 | 21.0% | 63 | 53 | 8 | 6 | 2 | 2 | 2 | 2 |
| Missouri | 136 | 163 | -17.0% | 136 | 163 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 94 | 43 | 118.0% | 94 | 43 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 65 | 66 | -1.6% | 64 | 64 | 0 | 0 | 0 | 0 | 1 | 1 |
| South Dakota | 21 | 18 | 20.0% | 20 | 17 | 1 | 1 | 0 | 0 | 0 | 0 |
| South Atlantic | 3,046 | 3,416 | -11.0% | 2,241 | 2,539 | 507 | 535 | 190 | 149 | 107 | 194 |
| Delaware | 43 | 46 | -7.1% | 0 | 1 | 42 | 44 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 26 | -100.0% | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 |
| Florida | 866 | 1,262 | -31.0% | 836 | 1,206 | 13 | 20 | 0 | 0 | 17 | 36 |
| Georgia | 172 | 232 | -26.0% | 127 | 126 | 3 | 3 | 3 | 3 | 39 | 99 |
| Maryland | 544 | 409 | 33.0% | 41 | 15 | 317 | 243 | 185 | 143 | 1 | 7 |
| North Carolina | 401 | 352 | 14.0% | 383 | 330 | 9 | 10 | 0 | 0 | 10 | 12 |
| South Carolina | 208 | 216 | -3.7% | 180 | 196 | 8 | 4 | 0 | 0 | 20 | 16 |
| Virginia | 542 | 624 | -13.0% | 409 | 417 | 111 | 182 | 1 | 2 | 21 | 23 |
| West Virginia | 270 | 250 | 7.8% | 265 | 249 | 5 | 2 | 0 | 0 | 0 | 0 |
| East South Central | 650 | 757 | -14.0% | 608 | 691 | 2 | 4 | 0 | 0 | 41 | 62 |
| Alabama | 143 | 198 | -28.0% | 107 | 138 | 2 | 4 | 0 | 0 | 34 | 57 |
| Kentucky | 227 | 232 | -2.1% | 227 | 232 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 25 | 29 | -13.0% | 23 | 26 | 0 | 0 | 0 | 0 | 3 | 3 |
| Tennessee | 255 | 297 | -14.0% | 251 | 295 | 0 | 0 | 0 | 0 | 4 | 2 |
| West South Central | 369 | 415 | -11.0% | 137 | 126 | 205 | 268 | 2 | 1 | 26 | 20 |
| Arkansas | 73 | 56 | 30.0% | 46 | 32 | 26 | 23 | 0 | 0 | 1 | 2 |
| Louisiana | 95 | 73 | 30.0% | 24 | 23 | 50 | 35 | 0 | 0 | 21 | 16 |
| Oklahoma | 19 | 22 | -11.0% | 18 | 21 | 0 | 0 | NM | 0 | 1 | 1 |
| Texas | 182 | 264 | -31.0% | 48 | 51 | 129 | 210 | 2 | 1 | 3 | 2 |
| Mountain | 406 | 433 | -6.2% | 365 | 382 | 40 | 45 | 0 | 0 | 1 | 6 |
| Arizona | 81 | 77 | 5.1% | 81 | 76 | 0 | 0 | 0 | 0 | 0 | 1 |
| Colorado | 29 | 31 | -5.3% | 29 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | 160.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 33 | 31 | 5.1% | 5 | 0 | 28 | 31 | 0 | 0 | 0 | 0 |
| Nevada | 35 | 41 | -15.0% | 28 | 30 | 6 | 11 | 0 | 0 | 0 | 0 |
| New Mexico | 110 | 88 | 26.0% | 106 | 86 | 5 | 1 | 0 | 0 | 0 | 0 |
| Utah | 46 | 71 | -36.0% | 44 | 67 | 1 | 2 | 0 | 0 | 0 | 2 |
| Wyoming | 73 | 95 | -23.0% | 72 | 92 | 0 | 0 | 0 | 0 | 0 | 3 |
| Pacific Contiguous | 159 | 166 | -4.5% | 78 | 85 | 40 | 47 | 3 | 2 | 38 | 33 |
| California | 95 | 97 | -1.8% | 59 | 61 | 23 | 32 | 2 | 1 | 12 | 3 |
| Oregon | 11 | 12 | -8.6% | 10 | 12 | 0 | 0 | 1 | 0 | 0 | 0 |
| Washington | 52 | 57 | -8.3% | 8 | 12 | 17 | 15 | 1 | 0 | 27 | 30 |
| Pacific Noncontiguous | 12,151 | 12,910 | -5.9% | 10,574 | 11,261 | 1,360 | 1,382 | 11 | 12 | 206 | 254 |
| Alaska | 1,386 | 1,710 | -19.0% | 1,307 | 1,615 | 0 | 0 | 6 | 9 | 74 | 86 |
| Hawaii | 10,765 | 11,200 | -3.9% | 9,267 | 9,646 | 1,360 | 1,382 | 5 | 4 | 133 | 168 |
| U.S. Total | 23,231 | 22,604 | 2.8% | 16,827 | 17,521 | 5,494 | 4,110 | 328 | 272 | 582 | 702 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 5.11. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, 2013 and 2012 (Thousand Tons)

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Connecticut | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Hampshire | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 54 | 56 | -4.7% | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 56 |
| New Jersey | 6 | 11 | -47.0% | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 11 |
| New York | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | 48 | 46 | 5.2% | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 46 |
| East North Central | 1,085 | 801 | 35.0% | 464 | 236 | 552 | 502 | 0 | 0 | 68 | 64 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 343 | 204 | 68.0% | 343 | 204 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 144 | 53 | 174.0% | 91 | 0 | 32 | 34 | 0 | 0 | 22 | 19 |
| Ohio | 523 | 468 | 12.0% | 0 | 0 | 520 | 468 | 0 | 0 | 3 | 0 |
| Wisconsin | 74 | 76 | -2.4% | 31 | 31 | 0 | 0 | 0 | 0 | 43 | 45 |
| West North Central | 30 | 6 | 385.0% | 0 | 5 | 0 | 0 | 1 | 1 | 28 | 0 |
| Iowa | 30 | 6 | 385.0% | 0 | 5 | 0 | 0 | 1 | 1 | 28 | 0 |
| Kansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 793 | 298 | 166.0% | 757 | 246 | 0 | 0 | 0 | 0 | 36 | 52 |
| Delaware | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 757 | 246 | 208.0% | 757 | 246 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 36 | 52 | -31.0% | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 52 |
| Maryland | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 499 | 542 | -7.9% | 499 | 542 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 499 | 542 | -7.9% | 499 | 542 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 2,211 | 1,741 | 27.0% | 1,689 | 1,076 | 47 | 25 | 0 | 0 | 476 | 640 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 1,796 | 1,155 | 55.0% | 1,689 | 1,076 | 0 | 0 | 0 | 0 | 107 | 79 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 415 | 586 | -29.0% | 0 | 0 | 47 | 25 | 0 | 0 | 369 | 561 |
| Mountain | 172 | 172 | 0.1% | 0 | 0 | 172 | 172 | 0 | 0 | 0 | 0 |
| Arizona | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 172 | 172 | 0.1% | 0 | 0 | 172 | 172 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 9 | 58 | -84.0% | 0 | 0 | 9 | 58 | 0 | 0 | 0 | 0 |
| California | 9 | 58 | -84.0% | 0 | 0 | 9 | 58 | 0 | 0 | 0 | 0 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 4,852 | 3,675 | 32.0% | 3,409 | 2,105 | 779 | 756 | 1 | 1 | 662 | 812 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 5.12. Consumption of Natural Gas for Electricity Generation by State, by Sector, 2013 and 2012 (Million Cubic Feet)

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 388,323 | 460,887 | -16.0% | 2,587 | 3,652 | 354,489 | 428,781 | 8,407 | 8,630 | 22,839 | 19,824 |
| Connecticut | 115,211 | 120,380 | -4.3% | 114 | 69 | 106,231 | 113,620 | 2,986 | 3,952 | 5,880 | 2,739 |
| Maine | 36,922 | 44,424 | -17.0% | 0 | 0 | 20,904 | 28,456 | 349 | 307 | 15,670 | 15,662 |
| Massachusetts | 159,436 | 184,330 | -14.0% | 2,074 | 2,792 | 151,703 | 176,497 | 4,503 | 3,749 | 1,156 | 1,293 |
| New Hampshire | 29,966 | 50,678 | -41.0% | 355 | 754 | 29,289 | 49,655 | 188 | 139 | 134 | 131 |
| Rhode Island | 46,743 | 61,037 | -23.0% | 0 | 0 | 46,362 | 60,553 | 381 | 483 | 0 | 0 |
| Vermont | 44 | 38 | 16.0% | 44 | 38 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 1,014,727 | 1,096,021 | -7.4% | 127,285 | 131,110 | 866,210 | 946,544 | 9,634 | 8,003 | 11,598 | 10,364 |
| New Jersey | 209,799 | 219,175 | -4.3% | 358 | 320 | 203,823 | 213,482 | 1,867 | 1,380 | 3,750 | 3,993 |
| New York | 448,127 | 491,430 | -8.8% | 126,900 | 130,766 | 312,882 | 353,376 | 6,542 | 5,443 | 1,802 | 1,845 |
| Pennsylvania | 356,802 | 385,415 | -7.4% | 27 | 24 | 349,506 | 379,686 | 1,224 | 1,180 | 6,046 | 4,525 |
| East North Central | 462,070 | 638,823 | -28.0% | 190,971 | 232,311 | 248,720 | 379,014 | 10,844 | 14,395 | 11,536 | 13,103 |
| Illinois | 55,230 | 95,068 | -42.0% | 5,279 | 12,659 | 42,757 | 72,451 | 4,690 | 7,729 | 2,504 | 2,228 |
| Indiana | 76,626 | 113,236 | -32.0% | 53,291 | 85,667 | 19,676 | 24,183 | 352 | 318 | 3,308 | 3,068 |
| Michigan | 106,990 | 169,806 | -37.0% | 27,553 | 41,177 | 71,661 | 119,531 | 3,028 | 2,874 | 4,748 | 6,224 |
| Ohio | 161,863 | 173,754 | -6.8% | 72,085 | 45,449 | 87,171 | 124,273 | 2,166 | 3,159 | 440 | 872 |
| Wisconsin | 61,361 | 86,961 | -29.0% | 32,762 | 47,358 | 27,454 | 38,576 | 608 | 315 | 536 | 711 |
| West North Central | 135,310 | 170,587 | -21.0% | 113,907 | 144,889 | 15,780 | 20,583 | 3,312 | 3,050 | 2,312 | 2,066 |
| Iowa | 13,239 | 17,124 | -23.0% | 12,070 | 16,508 | 0 | 0 | 426 | 55 | 743 | 560 |
| Kansas | 24,124 | 33,262 | -27.0% | 23,268 | 32,520 | 0 | 0 | 0 | 0 | 856 | 742 |
| Minnesota | 51,573 | 58,725 | -12.0% | 40,589 | 47,262 | 8,325 | 9,074 | 2,087 | 1,901 | 573 | 488 |
| Missouri | 37,283 | 51,047 | -27.0% | 28,968 | 38,436 | 7,455 | 11,508 | 799 | 1,090 | 61 | 13 |
| Nebraska | 4,605 | 7,867 | -41.0% | 4,604 | 7,696 | 0 | 0 | 1 | 4 | 0 | 167 |
| North Dakota | 414 | 97 | 327.0% | 337 | 1 | 0 | 0 | 0 | 0 | 78 | 97 |
| South Dakota | 4,071 | 2,465 | 65.0% | 4,071 | 2,465 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 1,871,068 | 2,027,116 | -7.7% | 1,537,482 | 1,556,238 | 302,358 | 444,508 | 5,224 | 3,250 | 26,005 | 23,120 |
| Delaware | 51,434 | 60,033 | -14.0% | 229 | 87 | 41,227 | 53,163 | 0 | 0 | 9,978 | 6,783 |
| District of Columbia | 900 | 1,019 | -12.0% | 0 | 0 | 0 | 0 | 900 | 1,019 | 0 | 0 |
| Florida | 1,040,363 | 1,143,253 | -9.0% | 955,851 | 1,036,033 | 74,874 | 97,848 | 174 | 166 | 9,464 | 9,207 |
| Georgia | 283,295 | 311,419 | -9.0% | 216,505 | 182,391 | 62,879 | 125,140 | 0 | 0 | 3,911 | 3,888 |
| Maryland | 27,549 | 51,189 | -46.0% | 0 | 0 | 23,236 | 48,313 | 4,020 | 2,023 | 292 | 852 |
| North Carolina | 202,035 | 151,311 | 34.0% | 179,920 | 127,498 | 21,569 | 23,368 | 33 | 42 | 513 | 403 |
| South Carolina | 90,653 | 116,711 | -22.0% | 79,389 | 98,325 | 10,518 | 17,592 | 67 | 0 | 679 | 794 |
| Virginia | 172,002 | 189,760 | -9.4% | 105,103 | 111,469 | 65,701 | 77,159 | 30 | 0 | 1,167 | 1,132 |
| West Virginia | 2,838 | 2,421 | 17.0% | 484 | 435 | 2,354 | 1,925 | 0 | 0 | 0 | 62 |
| East South Central | 645,019 | 813,127 | -21.0% | 380,637 | 439,019 | 237,438 | 346,672 | 1,566 | 1,454 | 25,378 | 25,982 |
| Alabama | 341,316 | 409,036 | -17.0% | 109,084 | 114,320 | 223,568 | 285,876 | 0 | 0 | 8,664 | 8,840 |
| Kentucky | 16,077 | 33,068 | -51.0% | 12,350 | 27,707 | 2,186 | 3,487 | 0 | 0 | 1,541 | 1,874 |
| Mississippi | 249,151 | 306,475 | -19.0% | 222,590 | 234,031 | 11,684 | 57,309 | 108 | 103 | 14,769 | 15,031 |
| Tennessee | 38,475 | 64,548 | -40.0% | 36,613 | 62,961 | 0 | 0 | 1,458 | 1,351 | 404 | 236 |
| West South Central | 2,333,083 | 2,572,269 | -9.3% | 789,831 | 824,116 | 1,083,107 | 1,293,055 | 8,154 | 6,077 | 451,991 | 449,020 |
| Arkansas | 88,619 | 123,878 | -28.0% | 34,000 | 24,399 | 52,902 | 98,125 | 11 | 7 | 1,707 | 1,348 |
| Louisiana | 458,282 | 498,772 | -8.1% | 239,746 | 225,881 | 21,652 | 79,084 | 1,978 | 255 | 194,906 | 193,552 |
| Oklahoma | 247,998 | 318,424 | -22.0% | 188,711 | 232,526 | 58,749 | 85,234 | 64 | 60 | 475 | 605 |
| Texas | 1,538,184 | 1,631,194 | -5.7% | 327,374 | 341,311 | 949,804 | 1,030,613 | 6,101 | 5,755 | 254,905 | 253,516 |
| Mountain | 659,072 | 654,440 | 0.7% | 416,867 | 394,561 | 225,026 | 242,649 | 4,097 | 3,086 | 13,082 | 14,144 |
| Arizona | 224,151 | 229,825 | -2.5% | 91,603 | 111,256 | 131,088 | 117,416 | 1,460 | 1,115 | 0 | 38 |
| Colorado | 87,650 | 84,984 | 3.1% | 63,200 | 48,631 | 24,182 | 36,116 | 52 | 28 | 217 | 210 |
| Idaho | 24,885 | 13,685 | 82.0% | 12,464 | 4,394 | 11,985 | 8,827 | 0 | 0 | 436 | 464 |
| Montana | 7,273 | 5,370 | 35.0% | 6,348 | 5,145 | 925 | 224 | 0 | 0 | 0 | 0 |
| Nevada | 180,669 | 188,769 | -4.3% | 153,922 | 136,828 | 23,886 | 48,990 | 695 | 629 | 2,166 | 2,322 |
| New Mexico | 73,209 | 72,592 | 0.9% | 47,697 | 48,015 | 24,497 | 23,734 | 976 | 839 | 40 | 4 |
| Utah | 57,911 | 55,880 | 3.6% | 41,294 | 39,975 | 8,267 | 7,163 | 916 | 476 | 7,434 | 8,266 |
| Wyoming | 3,324 | 3,335 | -0.3% | 338 | 317 | 197 | 179 | 0 | 0 | 2,789 | 2,840 |
| Pacific Contiguous | 1,052,826 | 1,011,056 | 4.1% | 376,937 | 336,272 | 584,003 | 584,454 | 15,295 | 15,153 | 76,590 | 75,178 |
| California | 867,611 | 889,837 | -2.5% | 267,749 | 276,436 | 509,639 | 524,909 | 14,400 | 14,552 | 75,823 | 73,940 |
| Oregon | 102,013 | 81,995 | 24.0% | 36,429 | 27,956 | 64,421 | 52,659 | 813 | 570 | 350 | 810 |
| Washington | 83,202 | 39,224 | 112.0% | 72,759 | 31,880 | 9,943 | 6,885 | 82 | 31 | 417 | 428 |
| Pacific Noncontiguous | 34,801 | 40,383 | -14.0% | 33,944 | 39,758 | 0 | 0 | 37 | 18 | 821 | 606 |
| Alaska | 34,801 | 40,383 | -14.0% | 33,944 | 39,758 | 0 | 0 | 37 | 18 | 821 | 606 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 8,596,299 | 9,484,710 | -9.4% | 3,970,447 | 4,101,927 | 3,917,131 | 4,686,260 | 66,570 | 63,116 | 642,152 | 633,407 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 5.13. Consumption of Landfill Gas for Electricity Generation by State, by Sector, 2013 and 2012 (Million Cubic Feet)

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 8,911 | 9,595 | -7.1% | 0 | 0 | 8,201 | 9,074 | 711 | 520 | 0 | 0 |
| Connecticut | 549 | 595 | -7.7% | 0 | 0 | 549 | 595 | 0 | 0 | 0 | 0 |
| Maine | 829 | 518 | 60.0% | 0 | 0 | 829 | 518 | 0 | 0 | 0 | 0 |
| Massachusetts | 4,087 | 3,603 | 13.0% | 0 | 0 | 4,087 | 3,603 | 0 | 0 | 0 | 0 |
| New Hampshire | 1,839 | 1,790 | 2.7% | 0 | 0 | 1,128 | 1,270 | 711 | 520 | 0 | 0 |
| Rhode Island | 956 | 2,409 | -60.0% | 0 | 0 | 956 | 2,409 | 0 | 0 | 0 | 0 |
| Vermont | 652 | 679 | -4.1% | 0 | 0 | 652 | 679 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 55,992 | 51,169 | 9.4% | 0 | 0 | 54,345 | 50,867 | 302 | 302 | 1,344 | 0 |
| New Jersey | 10,110 | 9,691 | 4.3% | 0 | 0 | 10,047 | 9,691 | 64 | 0 | 0 | 0 |
| New York | 16,851 | 16,418 | 2.6% | 0 | 0 | 16,851 | 16,418 | 0 | 0 | 0 | 0 |
| Pennsylvania | 29,031 | 25,060 | 16.0% | 0 | 0 | 27,448 | 24,758 | 238 | 302 | 1,344 | 0 |
| East North Central | 66,326 | 63,904 | 3.8% | 7,415 | 6,497 | 58,169 | 56,893 | 433 | 210 | 309 | 303 |
| Illinois | 15,444 | 16,204 | -4.7% | 0 | 0 | 15,444 | 16,204 | 0 | 0 | 0 | 0 |
| Indiana | 7,322 | 6,601 | 11.0% | 7,014 | 6,297 | 0 | 0 | 0 | 0 | 309 | 303 |
| Michigan | 20,603 | 18,536 | 11.0% | 0 | 0 | 20,603 | 18,536 | 0 | 0 | 0 | 0 |
| Ohio | 11,080 | 9,784 | 13.0% | 242 | 0 | 10,838 | 9,784 | 0 | 0 | 0 | 0 |
| Wisconsin | 11,877 | 12,780 | -7.1% | 159 | 200 | 11,285 | 12,369 | 433 | 210 | 0 | 0 |
| West North Central | 9,945 | 9,301 | 6.9% | 3,034 | 2,903 | 6,911 | 6,398 | 0 | 0 | 0 | 0 |
| Iowa | 1,989 | 2,021 | -1.6% | 0 | 0 | 1,989 | 2,021 | 0 | 0 | 0 | 0 |
| Kansas | 1,636 | 1,205 | 36.0% | 0 | 0 | 1,636 | 1,205 | 0 | 0 | 0 | 0 |
| Minnesota | 3,605 | 3,489 | 3.3% | 769 | 768 | 2,836 | 2,720 | 0 | 0 | 0 | 0 |
| Missouri | 1,519 | 1,488 | 2.1% | 1,069 | 1,037 | 450 | 452 | 0 | 0 | 0 | 0 |
| Nebraska | 1,197 | 1,098 | 9.0% | 1,197 | 1,098 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 42,409 | 41,593 | 2.0% | 5,439 | 4,763 | 30,635 | 32,235 | 3,364 | 2,353 | 2,970 | 2,242 |
| Delaware | 1,288 | 2,426 | -47.0% | 0 | 0 | 1,288 | 2,426 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 8,541 | 7,839 | 9.0% | 1,861 | 1,718 | 6,550 | 6,122 | 0 | 0 | 130 | 0 |
| Georgia | 3,494 | 2,924 | 19.0% | 0 | 0 | 2,359 | 2,452 | 445 | 472 | 690 | 0 |
| Maryland | 3,676 | 3,374 | 8.9% | 0 | 0 | 1,960 | 1,797 | 1,716 | 1,577 | 0 | 0 |
| North Carolina | 8,118 | 6,497 | 25.0% | 0 | 0 | 7,158 | 6,461 | 960 | 36 | 0 | 0 |
| South Carolina | 5,928 | 5,490 | 8.0% | 3,479 | 2,953 | 298 | 295 | 0 | 0 | 2,151 | 2,242 |
| Virginia | 11,275 | 12,779 | -12.0% | 99 | 92 | 10,933 | 12,420 | 244 | 267 | 0 | 0 |
| West Virginia | 89 | 262 | -66.0% | 0 | 0 | 89 | 262 | 0 | 0 | 0 | 0 |
| East South Central | 4,505 | 3,898 | 16.0% | 2,460 | 2,398 | 2,045 | 1,500 | 0 | 0 | 0 | 0 |
| Alabama | 236 | 226 | 4.5% | 0 | 0 | 236 | 226 | 0 | 0 | 0 | 0 |
| Kentucky | 2,460 | 2,398 | 2.6% | 2,460 | 2,398 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 214 | 48 | 343.0% | 0 | 0 | 214 | 48 | 0 | 0 | 0 | 0 |
| Tennessee | 1,595 | 1,226 | 30.0% | 0 | 0 | 1,595 | 1,226 | 0 | 0 | 0 | 0 |
| West South Central | 16,355 | 15,086 | 8.4% | 0 | 0 | 15,716 | 14,429 | 639 | 657 | 0 | 0 |
| Arkansas | 1,422 | 1,193 | 19.0% | 0 | 0 | 1,422 | 1,193 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 450 | 0 | -- | 0 | 0 | 450 | 0 | 0 | 0 | 0 | 0 |
| Texas | 14,483 | 13,893 | 4.2% | 0 | 0 | 13,844 | 13,237 | 639 | 657 | 0 | 0 |
| Mountain | 5,607 | 4,328 | 30.0% | 1,077 | 948 | 4,529 | 3,380 | 0 | 0 | 0 | 0 |
| Arizona | 1,651 | 1,367 | 21.0% | 843 | 728 | 808 | 639 | 0 | 0 | 0 | 0 |
| Colorado | 1,385 | 565 | 145.0% | 0 | 0 | 1,385 | 565 | 0 | 0 | 0 | 0 |
| Idaho | 724 | 741 | -2.2% | 234 | 220 | 490 | 521 | 0 | 0 | 0 | 0 |
| Montana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 539 | 402 | 34.0% | 0 | 0 | 539 | 402 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 1,308 | 1,253 | 4.3% | 0 | 0 | 1,308 | 1,253 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 61,066 | 57,502 | 6.2% | 7,833 | 7,684 | 31,390 | 27,187 | 21,843 | 22,630 | 0 | 0 |
| California | 52,551 | 50,347 | 4.4% | 3,317 | 3,549 | 27,870 | 24,663 | 21,364 | 22,134 | 0 | 0 |
| Oregon | 4,806 | 4,165 | 15.0% | 1,254 | 1,360 | 3,073 | 2,309 | 480 | 496 | 0 | 0 |
| Washington | 3,709 | 2,990 | 24.0% | 3,262 | 2,775 | 447 | 215 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 851 | 0 | -- | 0 | 0 | 0 | 0 | 851 | 0 | 0 | 0 |
| Alaska | 851 | 0 | -- | 0 | 0 | 0 | 0 | 851 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 271,967 | 256,376 | 6.1% | 27,259 | 25,193 | 211,942 | 201,965 | 28,143 | 26,672 | 4,623 | 2,545 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 5.14. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, 2013 and 2012 (Thousand Tons)

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 3,913 | 4,041 | -3.2% | 0 | 0 | 3,630 | 3,838 | 283 | 203 | 0 | 0 |
| Connecticut | 1,416 | 1,415 | 0.1% | 0 | 0 | 1,330 | 1,415 | 86 | 0 | 0 | 0 |
| Maine | 312 | 440 | -29.0% | 0 | 0 | 115 | 237 | 196 | 203 | 0 | 0 |
| Massachusetts | 2,029 | 2,017 | 0.6% | 0 | 0 | 2,029 | 2,017 | 0 | 0 | 0 | 0 |
| New Hampshire | 156 | 169 | -7.7% | 0 | 0 | 156 | 169 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 5,438 | 5,512 | -1.3% | 0 | 0 | 4,261 | 4,315 | 1,178 | 1,198 | 0 | 0 |
| New Jersey | 1,403 | 1,367 | 2.7% | 0 | 0 | 1,059 | 1,015 | 345 | 351 | 0 | 0 |
| New York | 2,034 | 2,077 | -2.1% | 0 | 0 | 1,469 | 1,505 | 565 | 572 | 0 | 0 |
| Pennsylvania | 2,001 | 2,069 | -3.3% | 0 | 0 | 1,733 | 1,795 | 268 | 274 | 0 | 0 |
| East North Central | 242 | 272 | -11.0% | 34 | 37 | 0 | 0 | 208 | 234 | 0 | 0 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 12 | 12 | 0.4% | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 0 |
| Michigan | 195 | 222 | -12.0% | 0 | 0 | 0 | 0 | 195 | 222 | 0 | 0 |
| Ohio | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 34 | 37 | -8.6% | 34 | 37 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 660 | 630 | 4.8% | 422 | 380 | 216 | 229 | 22 | 21 | 0 | 0 |
| Iowa | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 660 | 630 | 4.8% | 422 | 380 | 216 | 229 | 22 | 21 | 0 | 0 |
| Missouri | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 5,526 | 5,429 | 1.8% | 0 | 0 | 5,109 | 5,041 | 417 | 388 | 0 | 0 |
| Delaware | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 3,710 | 3,654 | 1.5% | 0 | 0 | 3,710 | 3,654 | 0 | 0 | 0 | 0 |
| Georgia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 768 | 737 | 4.2% | 0 | 0 | 768 | 737 | 0 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 1,047 | 1,038 | 0.9% | 0 | 0 | 631 | 650 | 417 | 388 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 8 | 12 | -35.0% | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 12 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 8 | 12 | -35.0% | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 12 |
| Texas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mountain | 3 | 3 | -0.4% | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 |
| Arizona | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 3 | 3 | -0.4% | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 838 | 810 | 3.5% | 0 | 0 | 838 | 810 | 0 | 0 | 0 | 0 |
| California | 551 | 515 | 7.0% | 0 | 0 | 551 | 515 | 0 | 0 | 0 | 0 |
| Oregon | 117 | 120 | -2.7% | 0 | 0 | 117 | 120 | 0 | 0 | 0 | 0 |
| Washington | 170 | 175 | -2.5% | 0 | 0 | 170 | 175 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 379 | 260 | 46.0% | 0 | 0 | 0 | 0 | 379 | 260 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 379 | 260 | 46.0% | 0 | 0 | 0 | 0 | 379 | 260 | 0 | 0 |
| U.S. Total | 17,007 | 16,968 | 0.2% | 456 | 418 | 14,057 | 14,235 | 2,485 | 2,304 | 8 | 12 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Chapter 6

Fossil Fuel Stocks for Electricity Generation

Table 6.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2003 - 2013

| Period | Electric Power Sector | | | Electric Utilities | | | Independent Power Producers | | |
|----------------------------------|-------------------------|---|--------------------------------------|-------------------------|---|--------------------------------------|-----------------------------|---|--------------------------------------|
| | Coal (Thousand Tons) | Petroleum Liquids (Thousand Barrels) | Petroleum Coke (Thousand Tons) | Coal (Thousand Tons) | Petroleum Liquids (Thousand Barrels) | Petroleum Coke (Thousand Tons) | Coal (Thousand Tons) | Petroleum Liquids (Thousand Barrels) | Petroleum Coke (Thousand Tons) |
| End of Year Stocks | | | | | | | | | |
| 2003 | 121,567 | 45,752 | 1,484 | 97,831 | 28,062 | 378 | 23,736 | 17,691 | 1,105 |
| 2004 | 106,669 | 46,750 | 937 | 84,917 | 29,144 | 627 | 21,751 | 17,607 | 309 |
| 2005 | 101,137 | 47,414 | 530 | 77,457 | 29,532 | 374 | 23,680 | 17,882 | 156 |
| 2006 | 140,964 | 48,216 | 674 | 110,277 | 29,799 | 456 | 30,688 | 18,416 | 217 |
| 2007 | 151,221 | 44,433 | 554 | 120,504 | 28,032 | 253 | 30,717 | 16,401 | 301 |
| 2008 | 161,589 | 40,804 | 739 | 127,463 | 26,108 | 468 | 34,126 | 14,696 | 270 |
| 2009 | 189,467 | 39,210 | 1,394 | 154,815 | 25,811 | 1,194 | 34,652 | 13,399 | 201 |
| 2010 | 174,917 | 35,706 | 1,019 | 143,744 | 24,798 | 850 | 31,173 | 10,908 | 168 |
| 2011 | 172,387 | 34,847 | 508 | 142,103 | 25,648 | 404 | 30,284 | 9,198 | 104 |
| 2012 | 185,116 | 32,224 | 495 | 150,942 | 23,875 | 414 | 34,174 | 8,349 | 81 |
| 2013 | 147,884 | 31,673 | 390 | 120,792 | 22,494 | 303 | 27,092 | 9,179 | 86 |
| 2011, End of Month Stocks | | | | | | | | | |
| January | 164,575 | 35,116 | 799 | 134,983 | 24,759 | 657 | 29,591 | 10,357 | 142 |
| February | 161,064 | 34,662 | 707 | 131,893 | 24,552 | 594 | 29,171 | 10,110 | 113 |
| March | 166,255 | 34,318 | 495 | 135,359 | 24,448 | 437 | 30,896 | 9,870 | 59 |
| April | 173,427 | 33,895 | 526 | 141,094 | 24,222 | 463 | 32,334 | 9,672 | 63 |
| May | 174,093 | 33,745 | 563 | 140,536 | 24,187 | 490 | 33,557 | 9,557 | 73 |
| June | 165,149 | 35,339 | 496 | 133,988 | 25,847 | 433 | 31,161 | 9,492 | 64 |
| July | 147,296 | 34,903 | 463 | 120,226 | 25,535 | 411 | 27,070 | 9,368 | 52 |
| August | 138,527 | 34,637 | 437 | 113,210 | 25,297 | 379 | 25,317 | 9,339 | 58 |
| September | 143,711 | 34,666 | 385 | 118,038 | 25,313 | 332 | 25,673 | 9,353 | 53 |
| October | 156,196 | 35,293 | 440 | 128,170 | 25,756 | 346 | 28,026 | 9,536 | 94 |
| November | 167,754 | 35,437 | 494 | 137,122 | 25,967 | 391 | 30,632 | 9,470 | 102 |
| December | 172,387 | 34,847 | 508 | 142,103 | 25,648 | 404 | 30,284 | 9,198 | 104 |
| 2012, End of Month Stocks | | | | | | | | | |
| January | 180,091 | 34,660 | 409 | 144,615 | 25,518 | 324 | 35,476 | 9,142 | 85 |
| February | 186,866 | 34,431 | 374 | 150,246 | 25,311 | 293 | 36,620 | 9,119 | 81 |
| March | 195,380 | 34,552 | 453 | 157,444 | 25,463 | 351 | 37,935 | 9,089 | 102 |
| April | 202,265 | 34,375 | 457 | 161,926 | 25,356 | 332 | 40,339 | 9,019 | 125 |
| May | 203,137 | 33,973 | 406 | 162,992 | 25,046 | 270 | 40,146 | 8,926 | 136 |
| June | 197,924 | 33,747 | 458 | 158,366 | 24,964 | 287 | 39,558 | 8,783 | 171 |
| July | 183,958 | 33,502 | 406 | 148,517 | 24,947 | 216 | 35,442 | 8,555 | 190 |
| August | 178,537 | 32,619 | 336 | 144,975 | 24,297 | 198 | 33,562 | 8,322 | 139 |
| September | 182,020 | 32,316 | 353 | 147,916 | 24,175 | 267 | 34,104 | 8,141 | 86 |
| October | 186,396 | 32,182 | 406 | 151,418 | 24,078 | 339 | 34,978 | 8,104 | 67 |
| November | 188,291 | 32,045 | 416 | 152,864 | 23,982 | 346 | 35,428 | 8,062 | 70 |
| December | 185,116 | 32,224 | 495 | 150,942 | 23,875 | 414 | 34,174 | 8,349 | 81 |
| 2013, End of Month Stocks | | | | | | | | | |
| January | 178,859 | 31,314 | 442 | 145,550 | 23,442 | 358 | 33,309 | 7,872 | 84 |
| February | 175,565 | 31,205 | 442 | 144,081 | 23,182 | 362 | 31,484 | 8,023 | 81 |
| March | 171,736 | 32,199 | 407 | 141,891 | 23,917 | 323 | 29,845 | 8,281 | 84 |
| April | 173,014 | 31,569 | 456 | 143,082 | 23,399 | 387 | 29,933 | 8,169 | 69 |
| May | 177,174 | 31,494 | 443 | 144,824 | 23,305 | 348 | 32,350 | 8,189 | 96 |
| June | 171,124 | 31,313 | 408 | 139,705 | 23,148 | 303 | 31,418 | 8,165 | 105 |
| July | 160,019 | 30,804 | 394 | 131,967 | 22,770 | 279 | 28,053 | 8,034 | 115 |
| August | 154,567 | 31,436 | 260 | 127,153 | 23,070 | 183 | 27,414 | 8,366 | 77 |
| September | 152,694 | 31,428 | 309 | 125,579 | 22,618 | 191 | 27,115 | 8,811 | 118 |
| October | 154,194 | 31,771 | 291 | 125,616 | 22,696 | 214 | 28,578 | 9,075 | 77 |
| November | 156,249 | 32,620 | 338 | 126,611 | 22,827 | 250 | 29,638 | 9,793 | 88 |
| December | 147,884 | 31,673 | 390 | 120,792 | 22,494 | 303 | 27,092 | 9,179 | 86 |

Notes: See Glossary for definitions. Values are final.

See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms. Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

**Table 6.2 Stocks of Coal, Petroleum Liquids, and Petroleum Coke:
Electric Power Sector, by State, 2013 and 2012**

| Census Division and State | Coal (Thousand Tons) | | | Petroleum Liquids (Thousand Barrels) | | | Petroleum Coke (Thousand Tons) | | |
|------------------------------|-------------------------|------------------|----------------------|---|------------------|----------------------|-----------------------------------|------------------|----------------------|
| | December 2013 | December 2012 | Percentage Change | December 2013 | December 2012 | Percentage Change | December 2013 | December 2012 | Percentage Change |
| New England | 1,129 | 1,030 | 9.6% | 3,613 | 2,483 | 45.0% | 0 | 0 | -- |
| Connecticut | W | W | W | 1,141 | 1,300 | -12.0% | 0 | 0 | -- |
| Maine | 0 | 0 | -- | W | W | W | 0 | 0 | -- |
| Massachusetts | 582 | W | W | 1,496 | 837 | 79.0% | 0 | 0 | -- |
| New Hampshire | W | W | W | W | W | W | 0 | 0 | -- |
| Rhode Island | 0 | 0 | -- | W | W | W | 0 | 0 | -- |
| Vermont | 0 | 0 | -- | NM | 51 | NM | 0 | 0 | -- |
| Middle Atlantic | 5,973 | 7,553 | -21.0% | 4,943 | 5,496 | -10.0% | W | W | W |
| New Jersey | 1,045 | 926 | 13.0% | 803 | 1,084 | -26.0% | 0 | 0 | -- |
| New York | 429 | 556 | -23.0% | 3,409 | 3,498 | -2.5% | 0 | 0 | -- |
| Pennsylvania | 4,499 | 6,070 | -26.0% | 731 | 914 | -20.0% | W | W | W |
| East North Central | 28,279 | 36,139 | -22.0% | 1,158 | 1,223 | -5.4% | 86 | 56 | 54.0% |
| Illinois | 6,273 | 8,931 | -30.0% | 118 | 118 | 0.5% | 0 | 0 | -- |
| Indiana | 8,034 | 9,127 | -12.0% | 117 | 117 | 0.4% | 0 | 0 | -- |
| Michigan | 6,032 | 6,729 | -10.0% | 382 | 439 | -13.0% | W | W | W |
| Ohio | 4,536 | 6,340 | -28.0% | 318 | 316 | 0.4% | W | W | W |
| Wisconsin | 3,403 | 5,012 | -32.0% | 223 | 234 | -4.7% | W | W | W |
| West North Central | 22,930 | 30,554 | -25.0% | 1,127 | 1,052 | 7.1% | 0 | 0 | -- |
| Iowa | 6,734 | 8,580 | -22.0% | 161 | 152 | 6.0% | 0 | 0 | -- |
| Kansas | 3,155 | 3,741 | -16.0% | 134 | 165 | -19.0% | 0 | 0 | -- |
| Minnesota | 1,971 | 2,691 | -27.0% | 154 | 168 | -8.1% | 0 | 0 | -- |
| Missouri | 7,195 | 10,230 | -30.0% | 285 | 316 | -9.8% | 0 | 0 | -- |
| Nebraska | 2,522 | 3,321 | -24.0% | 271 | 132 | 106.0% | 0 | 0 | -- |
| North Dakota | W | W | W | 44 | 36 | 22.0% | 0 | 0 | -- |
| South Dakota | W | W | W | 77 | 83 | -6.8% | 0 | 0 | -- |
| South Atlantic | 32,373 | 38,859 | -17.0% | 12,640 | 13,603 | -7.1% | W | W | W |
| Delaware | W | W | W | 365 | 392 | -6.8% | 0 | 0 | -- |
| District of Columbia | 0 | 0 | -- | 0 | 0 | -- | 0 | 0 | -- |
| Florida | W | W | W | 6,382 | 7,128 | -10.0% | W | W | W |
| Georgia | 7,992 | 9,970 | -20.0% | 900 | 908 | -0.9% | 0 | 0 | -- |
| Maryland | 1,327 | 1,544 | -14.0% | 732 | 826 | -11.0% | 0 | 0 | -- |
| North Carolina | 5,541 | 7,164 | -23.0% | 1,134 | 1,110 | 2.2% | 0 | 0 | -- |
| South Carolina | 5,107 | W | W | 620 | 650 | -4.6% | 0 | W | W |
| Virginia | 1,428 | 2,118 | -33.0% | 2,335 | 2,440 | -4.3% | 0 | 0 | -- |
| West Virginia | 5,402 | 5,643 | -4.3% | 172 | 150 | 15.0% | W | W | W |
| East South Central | 16,840 | 19,657 | -14.0% | 1,972 | 1,928 | 2.3% | W | W | W |
| Alabama | 4,285 | 6,123 | -30.0% | 301 | 279 | 8.0% | 0 | 0 | -- |
| Kentucky | 7,925 | 8,417 | -5.8% | 260 | 257 | 1.3% | W | W | W |
| Mississippi | 1,427 | 1,964 | -27.0% | 589 | 559 | 5.3% | 0 | 0 | -- |
| Tennessee | 3,203 | 3,153 | 1.6% | 822 | 832 | -1.3% | 0 | 0 | -- |
| West South Central | 23,375 | 28,807 | -19.0% | 2,273 | 2,548 | -11.0% | W | W | W |
| Arkansas | 3,253 | 4,181 | -22.0% | W | 245 | W | 0 | 0 | -- |
| Louisiana | 3,790 | 3,342 | 13.0% | 639 | 662 | -3.5% | W | W | W |
| Oklahoma | 3,072 | 4,739 | -35.0% | W | 209 | W | 0 | 0 | -- |
| Texas | 13,261 | 16,545 | -20.0% | 1,310 | 1,432 | -8.5% | 0 | W | W |
| Mountain | 15,732 | 20,385 | -23.0% | 905 | 654 | 38.0% | W | W | W |
| Arizona | 2,645 | 4,235 | -38.0% | 194 | 209 | -7.1% | 0 | 0 | -- |
| Colorado | 3,701 | 4,131 | -10.0% | 243 | 129 | 89.0% | 0 | 0 | -- |
| Idaho | 0 | 0 | -- | W | W | W | 0 | 0 | -- |
| Montana | W | W | W | 20 | W | W | W | W | W |
| Nevada | 639 | W | W | 179 | 179 | -0.2% | 0 | 0 | -- |
| New Mexico | W | W | W | W | 49 | W | 0 | 0 | -- |
| Utah | 4,099 | 4,737 | -13.0% | W | NM | W | 0 | 0 | -- |
| Wyoming | 2,742 | 3,962 | -31.0% | 31 | 29 | 7.0% | 0 | 0 | -- |
| Pacific Contiguous | W | W | W | 417 | 395 | 5.6% | W | W | W |
| California | W | W | W | 235 | NM | NM | W | W | W |
| Oregon | W | W | W | W | W | W | 0 | 0 | -- |
| Washington | W | W | W | W | W | W | 0 | 0 | -- |
| Pacific Noncontiguous | W | W | W | 2,626 | 2,842 | -7.6% | 0 | 0 | -- |
| Alaska | W | W | W | 290 | 279 | 3.9% | 0 | 0 | -- |
| Hawaii | W | W | W | 2,336 | 2,562 | -8.8% | 0 | 0 | -- |
| U.S. Total | 147,884 | 185,116 | -20.0% | 31,673 | 32,224 | -1.7% | 390 | 495 | -21.0% |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 6.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke:
Electric Power Sector, by Census Division, 2013 and 2012**

| Census Division | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|---|-----------------------|----------------|-------------------|--------------------|----------------|-----------------------------|---------------|
| | December 2013 | December 2012 | Percentage Change | December 2013 | December 2012 | December 2013 | December 2012 |
| Coal (Thousand Tons) | | | | | | | |
| New England | 1,129 | 1,030 | 9.6% | W | W | W | W |
| Middle Atlantic | 5,973 | 7,553 | -20.9% | 0 | W | 5,973 | W |
| East North Central | 28,279 | 36,139 | -21.7% | 22,076 | 27,069 | 6,203 | 9,070 |
| West North Central | 22,930 | 30,554 | -25.0% | W | 30,554 | W | 0 |
| South Atlantic | 32,373 | 38,859 | -16.7% | 29,241 | 35,527 | 3,132 | 3,331 |
| East South Central | 16,840 | 19,657 | -14.3% | 16,840 | 19,657 | 0 | 0 |
| West South Central | 23,375 | 28,807 | -18.9% | 13,676 | 17,047 | 9,700 | 11,760 |
| Mountain | 15,732 | 20,385 | -22.8% | W | W | W | W |
| Pacific Contiguous | W | W | W | W | W | W | W |
| Pacific Noncontiguous | W | W | W | W | W | W | W |
| U.S. Total | 147,884 | 185,116 | -20.1% | 120,792 | 150,942 | 27,092 | 34,174 |
| Petroleum Liquids (Thousand Barrels) | | | | | | | |
| New England | 3,613 | 2,483 | 45.5% | W | 464 | W | 2,020 |
| Middle Atlantic | 4,943 | 5,496 | -10.1% | 2,025 | 2,482 | 2,918 | 3,014 |
| East North Central | 1,158 | 1,223 | -5.4% | 944 | 1,007 | 214 | 217 |
| West North Central | 1,127 | 1,052 | 7.1% | 1,099 | 1,020 | 28 | 31 |
| South Atlantic | 12,640 | 13,603 | -7.1% | 10,476 | 11,314 | 2,163 | 2,289 |
| East South Central | 1,972 | 1,928 | 2.3% | W | W | W | W |
| West South Central | 2,273 | 2,548 | -10.8% | W | 1,953 | W | 595 |
| Mountain | 905 | 654 | 38.3% | 863 | W | 42 | W |
| Pacific Contiguous | 417 | 395 | 5.6% | 324 | W | 93 | W |
| Pacific Noncontiguous | 2,626 | 2,842 | -7.6% | W | W | W | W |
| U.S. Total | 31,673 | 32,224 | -1.7% | 22,494 | 23,875 | 9,179 | 8,349 |
| Petroleum Coke (Thousand Tons) | | | | | | | |
| New England | 0 | 0 | -- | 0 | 0 | 0 | 0 |
| Middle Atlantic | W | W | W | 0 | 0 | W | W |
| East North Central | 86 | 56 | 54.1% | W | W | W | W |
| West North Central | 0 | 0 | -- | 0 | 0 | 0 | 0 |
| South Atlantic | W | W | W | W | W | W | W |
| East South Central | W | W | W | W | W | 0 | 0 |
| West South Central | W | W | W | W | W | 0 | W |
| Mountain | W | W | W | 0 | 0 | W | W |
| Pacific Contiguous | W | W | W | 0 | 0 | W | W |
| Pacific Noncontiguous | 0 | 0 | -- | 0 | 0 | 0 | 0 |
| U.S. Total | 390 | 495 | -21.2% | 303 | 414 | 86 | 81 |

W = Withheld to avoid disclosure of individual company data.

Notes: See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form-923, 'Power Plant Operations Report.'

Table 6.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2003 - 2013

| Period | Electric Power Sector | | | |
|----------------------------------|-----------------------|--------------------|--------------|---------|
| | Bituminous Coal | Subbituminous Coal | Lignite Coal | Total |
| End of Year Stocks | | | | |
| 2003 | 57,716 | 59,884 | 3,967 | 121,567 |
| 2004 | 49,022 | 53,618 | 4,029 | 106,669 |
| 2005 | 52,923 | 44,377 | 3,836 | 101,137 |
| 2006 | 67,760 | 68,408 | 4,797 | 140,964 |
| 2007 | 63,964 | 82,692 | 4,565 | 151,221 |
| 2008 | 65,818 | 91,214 | 4,556 | 161,589 |
| 2009 | 91,922 | 92,448 | 5,097 | 189,467 |
| 2010 | 81,108 | 86,915 | 6,894 | 174,917 |
| 2011 | 82,056 | 85,151 | 5,179 | 172,387 |
| 2012 | 86,437 | 93,833 | 4,846 | 185,116 |
| 2013 | 73,113 | 69,720 | 5,051 | 147,884 |
| 2011, End of Month Stocks | | | | |
| January | 76,100 | 82,111 | 6,364 | 164,575 |
| February | 75,549 | 79,101 | 6,414 | 161,064 |
| March | 77,414 | 82,337 | 6,504 | 166,255 |
| April | 79,734 | 86,900 | 6,793 | 173,427 |
| May | 79,250 | 88,099 | 6,744 | 174,093 |
| June | 75,011 | 83,599 | 6,539 | 165,149 |
| July | 66,549 | 74,518 | 6,229 | 147,296 |
| August | 64,584 | 67,775 | 6,168 | 138,527 |
| September | 66,763 | 70,804 | 6,144 | 143,711 |
| October | 74,236 | 75,766 | 6,193 | 156,196 |
| November | 79,726 | 81,302 | 6,726 | 167,754 |
| December | 82,056 | 85,151 | 5,179 | 172,387 |
| 2012, End of Month Stocks | | | | |
| January | 83,807 | 91,263 | 5,021 | 180,091 |
| February | 87,674 | 94,462 | 4,729 | 186,866 |
| March | 90,520 | 100,126 | 4,734 | 195,380 |
| April | 93,508 | 103,798 | 4,960 | 202,265 |
| May | 94,058 | 103,893 | 5,187 | 203,137 |
| June | 92,348 | 100,431 | 5,146 | 197,924 |
| July | 83,754 | 95,299 | 4,906 | 183,958 |
| August | 80,888 | 92,705 | 4,944 | 178,537 |
| September | 82,766 | 94,464 | 4,789 | 182,020 |
| October | 86,510 | 95,156 | 4,730 | 186,396 |
| November | 87,622 | 95,917 | 4,752 | 188,291 |
| December | 86,437 | 93,833 | 4,846 | 185,116 |
| 2013, End of Month Stocks | | | | |
| January | 83,501 | 90,693 | 4,664 | 178,859 |
| February | 81,835 | 89,227 | 4,504 | 175,565 |
| March | 80,528 | 86,416 | 4,792 | 171,736 |
| April | 82,756 | 85,182 | 5,076 | 173,014 |
| May | 84,487 | 86,439 | 6,248 | 177,174 |
| June | 82,016 | 82,922 | 6,186 | 171,124 |
| July | 75,887 | 78,372 | 5,760 | 160,019 |
| August | 73,002 | 75,970 | 5,595 | 154,567 |
| September | 72,121 | 75,001 | 5,571 | 152,694 |
| October | 74,079 | 74,620 | 5,496 | 154,194 |
| November | 75,232 | 75,683 | 5,334 | 156,249 |
| December | 73,113 | 69,720 | 5,051 | 147,884 |

Notes: See Glossary for definitions.

Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

and predecessor forms. Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms. Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following:

Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Chapter 7

Receipts, Cost, and Quality of Fossil Fuels

Table 7.1. Receipts, Average Cost, and Quality of Fossil Fuels for the Electric Power Industry, 2003 through 2013

| Period | Coal | | | | Petroleum | | | | Natural Gas | | All Fossil Fuels |
|--------|--------------------------------|---|------------------------|----------------------|-----------------------------------|---|------------------------|-------------------------|-------------------------------|---|---|
| | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Cost | | Receipts (Thousand Barrels) | Average Sulfur Percent by Weight | Average Cost | | Receipts (Thousand Mcf) | Average Cost (Dollars per MMBtu) | Average Cost (Dollars per MMBtu) |
| | | | (Dollars per MMBtu) | (Dollars per Ton) | | | (Dollars per MMBtu) | (Dollars per Barrel) | | | |
| 2003 | 986,026 | 0.97 | 1.28 | 26.00 | 185,567 | 1.53 | 4.33 | 26.78 | 5,500,704 | 5.39 | 2.28 |
| 2004 | 1,002,032 | 0.97 | 1.36 | 27.42 | 186,655 | 1.66 | 4.29 | 26.56 | 5,734,054 | 5.96 | 2.48 |
| 2005 | 1,021,437 | 0.98 | 1.54 | 31.20 | 194,733 | 1.61 | 6.44 | 39.65 | 6,181,717 | 8.21 | 3.25 |
| 2006 | 1,079,943 | 0.97 | 1.69 | 34.09 | 100,965 | 2.31 | 6.23 | 37.66 | 6,675,246 | 6.94 | 3.02 |
| 2007 | 1,054,664 | 0.96 | 1.77 | 35.48 | 88,347 | 2.10 | 7.17 | 43.50 | 7,200,316 | 7.11 | 3.23 |
| 2008 | 1,069,709 | 0.97 | 2.07 | 41.14 | 96,341 | 2.21 | 10.87 | 64.89 | 7,879,046 | 9.02 | 4.11 |
| 2009 | 981,477 | 1.01 | 2.21 | 43.74 | 88,951 | 2.14 | 7.02 | 41.64 | 8,118,550 | 4.74 | 3.04 |
| 2010 | 979,918 | 1.16 | 2.27 | 44.64 | 75,285 | 2.14 | 9.54 | 56.35 | 8,673,070 | 5.09 | 3.26 |
| 2011 | 956,538 | 1.19 | 2.39 | 46.65 | 66,058 | 2.49 | 12.48 | 73.29 | 9,056,164 | 4.72 | 3.29 |
| 2012 | 841,183 | 1.25 | 2.38 | 46.09 | 40,364 | 3.61 | 12.48 | 73.30 | 9,531,389 | 3.42 | 2.83 |
| 2013 | 823,222 | 1.29 | 2.34 | 45.33 | 43,714 | 3.54 | 11.57 | 68.09 | 8,503,424 | 4.33 | 3.09 |

Value is less than half of the smallest unit of measure. (e.g., for values with no decimals, the smallest unit is 1; then values under 0.5 are shown as .5)

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes:

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; coal synfuel and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum includes Petroleum Liquids and Petroleum Coke.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Table 7.2. Receipts and Quality of Coal Delivered for the Electric Power Industry, 2003 through 2013

| Period | Bituminous | | | Subbituminous | | | Lignite | | |
|--------|--------------------------------|--|-------------------------------------|--------------------------------|--|-------------------------------------|--------------------------------|--|-------------------------------------|
| | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight |
| 2003 | 467,286 | 1.50 | 10.0 | 432,513 | 0.38 | 6.4 | 79,869 | 1.03 | 14.4 |
| 2004 | 470,619 | 1.52 | 10.4 | 445,603 | 0.36 | 6.0 | 78,268 | 1.05 | 14.2 |
| 2005 | 480,179 | 1.56 | 10.5 | 456,856 | 0.36 | 6.2 | 77,677 | 1.02 | 14.0 |
| 2006 | 489,550 | 1.59 | 10.5 | 504,947 | 0.35 | 6.1 | 75,742 | 0.95 | 14.4 |
| 2007 | 467,817 | 1.62 | 10.3 | 505,155 | 0.34 | 6.0 | 71,930 | 0.90 | 14.0 |
| 2008 | 464,362 | 1.68 | 10.6 | 522,228 | 0.34 | 5.8 | 68,945 | 0.86 | 13.8 |
| 2009 | 418,688 | 1.77 | 10.5 | 484,007 | 0.34 | 5.8 | 64,966 | 0.95 | 14.0 |
| 2010 | 403,619 | 1.90 | 10.4 | 491,425 | 0.33 | 5.8 | 71,416 | 0.90 | 14.1 |
| 2011 | 380,184 | 2.01 | 10.5 | 488,366 | 0.33 | 5.8 | 75,675 | 0.90 | 14.4 |
| 2012 | 317,398 | 2.23 | 10.6 | 442,674 | 0.32 | 5.8 | 71,848 | 0.93 | 14.6 |
| 2013 | 312,821 | 2.33 | 10.5 | 429,283 | 0.32 | 5.8 | 71,191 | 0.92 | 14.3 |

— Value is less than half of the smallest unit of measure. (E.g., for values with no decimals, the smallest unit is 1; then values under 0.5 are shown as .)

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes:

Bituminous coal includes anthracite, synthetic, and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

See Glossary for definitions.

Values are final.

See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Table 7.3. Average Quality of Fossil Fuel Receipts for the Electric Power Industry, 2003 through 2013

| Period | Coal | | | Petroleum | | | Natural Gas |
|--------|-----------------------|----------------------------------|-------------------------------|------------------------|----------------------------------|-------------------------------|----------------------------|
| | Average Btu per Pound | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Average Btu per Gallon | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Average Btu per Cubic Foot |
| 2003 | 10,137 | 0.97 | 9.0 | 147,086 | 1.53 | 0.1 | 1,030 |
| 2004 | 10,074 | 0.97 | 9.0 | 147,286 | 1.66 | 0.2 | 1,027 |
| 2005 | 10,107 | 0.98 | 9.0 | 146,481 | 1.61 | 0.2 | 1,028 |
| 2006 | 10,063 | 0.97 | 9.0 | 143,883 | 2.31 | 0.2 | 1,027 |
| 2007 | 10,028 | 0.96 | 8.8 | 144,546 | 2.10 | 0.1 | 1,027 |
| 2008 | 9,947 | 0.97 | 9.0 | 142,205 | 2.21 | 0.3 | 1,027 |
| 2009 | 9,902 | 1.01 | 8.9 | 141,321 | 2.14 | 0.2 | 1,025 |
| 2010 | 9,842 | 1.16 | 8.8 | 140,598 | 2.14 | 0.2 | 1,022 |
| 2011 | 9,762 | 1.19 | 8.8 | 139,795 | 2.49 | 0.4 | 1,021 |
| 2012 | 9,668 | 1.25 | 8.8 | 139,567 | 3.61 | 0.5 | 1,023 |
| 2013 | 9,661 | 1.29 | 8.7 | 139,671 | 3.54 | 0.5 | 1,026 |

* = Value is less than half of the smallest unit of measure. (e.g., for values with no decimals, the smallest unit is 1 then values under 0.5 are shown as *.)

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes:

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; coal synfuel and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum includes Petroleum Liquids and Petroleum Coke.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

See Glossary for definitions.

Values are final.

See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 7.4. Weighted Average Cost of Fossil Fuels for the Electric Power Industry, 2003 through 2013

| Period | Coal | | | | | | | | Petroleum | | Natural Gas | | Total Fossil | |
|--------|-------------------------|----------------------------------|-------------------------|----------------------------------|-------------------------|----------------------------------|-------------------------|----------------------------------|-------------------------|----------------------------------|-------------------------|----------------------------------|-------------------------|----------------------------------|
| | Bituminous | | Subbituminous | | Lignite | | All Coal Ranks | | Receipts (Trillion Btu) | Average Cost (Dollars per MMBtu) | Receipts (Trillion Btu) | Average Cost (Dollars per MMBtu) | Receipts (Trillion Btu) | Average Cost (Dollars per MMBtu) |
| | Receipts (Trillion Btu) | Average Cost (Dollars per MMBtu) | Receipts (Trillion Btu) | Average Cost (Dollars per MMBtu) | Receipts (Trillion Btu) | Average Cost (Dollars per MMBtu) | Receipts (Trillion Btu) | Average Cost (Dollars per MMBtu) | | | | | | |
| 2003 | 11,284 | 1.43 | 7,598 | 1.10 | 1,026 | 1.03 | 19,990 | 1.28 | 1,146 | 4.33 | 5,663 | 5.39 | 26,799 | 2.28 |
| 2004 | 11,260 | 1.55 | 7,817 | 1.12 | 1,012 | 1.06 | 20,189 | 1.36 | 1,155 | 4.29 | 5,891 | 5.96 | 27,234 | 2.48 |
| 2005 | 11,546 | 1.83 | 8,004 | 1.19 | 1,008 | 1.07 | 20,647 | 1.54 | 1,198 | 6.44 | 6,357 | 8.21 | 28,202 | 3.25 |
| 2006 | 11,789 | 2.03 | 8,842 | 1.31 | 982 | 1.15 | 21,735 | 1.69 | 610 | 6.23 | 6,856 | 6.94 | 29,201 | 3.02 |
| 2007 | 11,279 | 2.07 | 8,826 | 1.45 | 925 | 1.28 | 21,152 | 1.77 | 536 | 7.17 | 7,396 | 7.11 | 29,085 | 3.23 |
| 2008 | 11,119 | 2.50 | 9,087 | 1.62 | 896 | 1.41 | 21,280 | 2.07 | 575 | 10.87 | 8,089 | 9.02 | 29,945 | 4.11 |
| 2009 | 10,010 | 2.75 | 8,421 | 1.64 | 835 | 1.58 | 19,438 | 2.21 | 528 | 7.02 | 8,319 | 4.74 | 28,285 | 3.04 |
| 2010 | 9,652 | 2.81 | 8,545 | 1.73 | 925 | 1.62 | 19,290 | 2.27 | 445 | 9.54 | 8,867 | 5.09 | 28,602 | 3.26 |
| 2011 | 9,040 | 2.94 | 8,498 | 1.91 | 986 | 1.62 | 18,676 | 2.39 | 388 | 12.48 | 9,251 | 4.72 | 28,314 | 3.29 |
| 2012 | 7,502 | 2.89 | 7,722 | 1.97 | 931 | 1.80 | 16,266 | 2.38 | 237 | 12.48 | 9,747 | 3.42 | 26,249 | 2.83 |
| 2013 | 7,351 | 2.77 | 7,511 | 2.00 | 927 | 1.78 | 15,907 | 2.34 | 256 | 11.57 | 8,721 | 4.33 | 24,884 | 3.09 |

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes:

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; coal synfuel and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Bituminous coal includes anthracite coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum includes Petroleum Liquids and Petroleum Coke.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

See Glossary for definitions.

Values are final.

See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Table 7.5. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2003 - 2013

| Period | Coal | | | | | | Petroleum Liquids | | | | | |
|----------------------|---------------|-----------------|---------------------|-------------------|----------------------------------|---------------------------|-------------------|--------------------|---------------------|----------------------|----------------------------------|---------------------------|
| | Receipts | | Average Cost | | Average Sulfur Percent by Weight | Percentage of Consumption | Receipts | | Average Cost | | Average Sulfur Percent by Weight | Percentage of Consumption |
| | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | | | (Billion Btu) | (Thousand Barrels) | (Dollars per MMBtu) | (Dollars per Barrel) | | |
| Annual Totals | | | | | | | | | | | | |
| 2003 | 15,292,394 | 746,594 | 1.26 | 25.82 | 0.91 | 98.6 | 605,651 | 95,534 | 4.68 | 29.66 | 0.95 | 90.7 |
| 2004 | 15,440,681 | 758,557 | 1.34 | 27.30 | 0.91 | 98.2 | 592,478 | 93,034 | 4.80 | 30.57 | 1.01 | 89.6 |
| 2005 | 15,836,924 | 775,890 | 1.53 | 31.22 | 0.94 | 101.9 | 566,320 | 89,303 | 7.17 | 45.46 | 0.89 | 90.9 |
| 2006 | 16,197,852 | 797,361 | 1.69 | 34.26 | 0.92 | 105.8 | 269,033 | 42,415 | 8.33 | 52.80 | 0.82 | 79.2 |
| 2007 | 15,561,395 | 767,377 | 1.78 | 36.06 | 0.92 | 100.3 | 216,349 | 34,026 | 9.24 | 58.73 | 0.77 | 59.8 |
| 2008 | 15,347,396 | 764,399 | 2.06 | 41.32 | 0.93 | 100.5 | 240,937 | 38,891 | 15.83 | 98.09 | 0.60 | 99.7 |
| 2009 | 14,402,019 | 719,253 | 2.22 | 44.47 | 0.99 | 103.4 | 202,598 | 32,959 | 10.44 | 64.18 | 0.51 | 103.5 |
| 2010 | 14,226,995 | 713,094 | 2.27 | 45.33 | 1.14 | 98.8 | 189,790 | 31,099 | 13.94 | 85.07 | 0.48 | 101.0 |
| 2011 | 13,871,559 | 699,353 | 2.40 | 47.67 | 1.16 | 101.5 | 144,255 | 23,859 | 20.30 | 122.72 | 0.53 | 114.5 |
| 2012 | 11,939,543 | 609,445 | 2.43 | 47.51 | 1.18 | 99.0 | 86,030 | 14,252 | 22.11 | 133.44 | 0.41 | 81.3 |
| 2013 | 11,595,328 | 592,772 | 2.38 | 46.51 | 1.23 | 92.9 | 78,101 | 12,814 | 21.09 | 128.57 | 0.43 | 76.2 |
| 2011 | | | | | | | | | | | | |
| January | 1,181,833 | 59,577 | 2.34 | 46.34 | 1.15 | 90.2 | 14,279 | 2,372 | 16.98 | 102.20 | 0.53 | 107.5 |
| February | 1,078,032 | 54,003 | 2.36 | 47.10 | 1.20 | 99.2 | 9,943 | 1,659 | 18.27 | 109.47 | 0.47 | 104.4 |
| March | 1,163,288 | 58,858 | 2.35 | 46.35 | 1.12 | 108.8 | 13,842 | 2,284 | 19.55 | 118.45 | 0.52 | 131.5 |
| April | 1,093,579 | 55,135 | 2.39 | 47.33 | 1.14 | 111.5 | 11,543 | 1,898 | 20.30 | 123.47 | 0.40 | 90.8 |
| May | 1,100,898 | 55,254 | 2.44 | 48.70 | 1.16 | 100.5 | 16,158 | 2,618 | 19.03 | 117.46 | 0.75 | 138.8 |
| June | 1,123,670 | 56,315 | 2.39 | 47.78 | 1.20 | 89.8 | 15,427 | 2,528 | 21.88 | 133.55 | 0.66 | 144.9 |
| July | 1,135,869 | 56,951 | 2.45 | 48.91 | 1.18 | 81.4 | 9,455 | 1,569 | 21.86 | 131.77 | 0.47 | 82.3 |
| August | 1,252,336 | 62,531 | 2.49 | 49.81 | 1.18 | 91.8 | 9,575 | 1,579 | 20.63 | 125.10 | 0.43 | 90.3 |
| September | 1,217,947 | 61,325 | 2.46 | 48.78 | 1.17 | 109.8 | 10,186 | 1,683 | 20.94 | 126.69 | 0.49 | 118.0 |
| October | 1,200,982 | 60,696 | 2.41 | 47.77 | 1.14 | 119.9 | 13,068 | 2,171 | 21.63 | 130.21 | 0.48 | 146.6 |
| November | 1,145,469 | 58,329 | 2.39 | 46.88 | 1.15 | 119.3 | 11,052 | 1,853 | 21.75 | 129.72 | 0.48 | 124.5 |
| December | 1,177,657 | 60,381 | 2.37 | 46.18 | 1.14 | 111.5 | 9,729 | 1,645 | 21.94 | 129.73 | 0.48 | 106.9 |
| 2012 | | | | | | | | | | | | |
| January | 1,065,584 | 54,942 | 2.39 | 46.44 | 1.14 | 105.0 | 8,221 | 1,366 | 21.73 | 130.71 | 0.42 | 91.4 |
| February | 977,965 | 50,084 | 2.41 | 47.06 | 1.22 | 106.8 | 5,975 | 995 | 22.16 | 133.14 | 0.38 | 79.9 |
| March | 948,751 | 48,359 | 2.44 | 47.94 | 1.21 | 111.4 | 7,907 | 1,294 | 22.94 | 140.22 | 0.42 | 95.1 |
| April | 873,863 | 43,906 | 2.49 | 49.64 | 1.27 | 110.0 | 6,007 | 1,002 | 23.78 | 142.55 | 0.48 | 74.8 |
| May | 929,247 | 47,009 | 2.47 | 48.73 | 1.25 | 100.2 | 6,122 | 1,029 | 23.35 | 138.90 | 0.46 | 71.4 |
| June | 952,000 | 48,574 | 2.42 | 47.38 | 1.20 | 90.4 | 9,006 | 1,481 | 22.42 | 136.33 | 0.47 | 85.5 |
| July | 1,051,379 | 53,700 | 2.44 | 47.70 | 1.15 | 83.3 | 9,357 | 1,538 | 20.71 | 126.01 | 0.40 | 75.7 |
| August | 1,118,779 | 56,932 | 2.43 | 47.75 | 1.16 | 92.6 | 7,640 | 1,266 | 21.17 | 127.71 | 0.40 | 79.3 |
| September | 1,011,975 | 51,891 | 2.43 | 47.40 | 1.12 | 100.7 | 6,246 | 1,026 | 21.88 | 133.24 | 0.37 | 80.2 |
| October | 1,013,074 | 51,751 | 2.40 | 47.07 | 1.16 | 105.5 | 6,497 | 1,074 | 22.21 | 134.37 | 0.29 | 78.3 |
| November | 999,479 | 51,032 | 2.40 | 46.93 | 1.17 | 99.5 | 5,800 | 970 | 22.46 | 134.34 | 0.34 | 75.6 |
| December | 997,447 | 51,264 | 2.39 | 46.58 | 1.19 | 94.0 | 7,253 | 1,212 | 21.36 | 127.87 | 0.42 | 90.1 |
| 2013 | | | | | | | | | | | | |
| January | 966,431 | 49,719 | 2.37 | 46.15 | 1.18 | 89.3 | 7,473 | 1,239 | 21.08 | 127.15 | 0.41 | 68.5 |
| February | 899,054 | 45,989 | 2.38 | 46.62 | 1.26 | 93.8 | 6,220 | 1,009 | 21.34 | 131.57 | 0.40 | 78.9 |
| March | 948,352 | 48,339 | 2.37 | 46.58 | 1.27 | 92.9 | 9,929 | 1,608 | 20.43 | 126.13 | 0.45 | 120.6 |
| April | 904,409 | 45,784 | 2.41 | 47.65 | 1.28 | 100.5 | 3,831 | 638 | 21.99 | 131.94 | 0.45 | 47.8 |
| May | 958,782 | 48,775 | 2.40 | 47.27 | 1.23 | 100.9 | 6,010 | 987 | 20.90 | 127.33 | 0.47 | 69.5 |
| June | 965,951 | 49,292 | 2.39 | 46.90 | 1.21 | 88.0 | 4,713 | 786 | 21.31 | 127.71 | 0.43 | 59.5 |
| July | 1,031,429 | 53,206 | 2.34 | 45.37 | 1.16 | 86.7 | 7,153 | 1,184 | 20.82 | 125.77 | 0.44 | 68.4 |
| August | 1,071,201 | 54,959 | 2.37 | 46.16 | 1.21 | 89.5 | 8,382 | 1,353 | 19.78 | 122.55 | 0.45 | 96.5 |
| September | 974,613 | 49,808 | 2.38 | 46.62 | 1.22 | 93.8 | 4,882 | 795 | 21.67 | 132.98 | 0.34 | 68.0 |
| October | 956,973 | 48,754 | 2.37 | 46.45 | 1.27 | 98.7 | 6,139 | 1,011 | 21.98 | 133.43 | 0.40 | 81.1 |
| November | 958,575 | 49,043 | 2.36 | 46.21 | 1.22 | 98.8 | 6,313 | 1,037 | 21.61 | 131.57 | 0.41 | 79.5 |
| December | 959,557 | 49,103 | 2.37 | 46.32 | 1.23 | 86.5 | 7,055 | 1,166 | 21.58 | 130.56 | 0.43 | 79.2 |

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

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 7.6. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2003 - 2013 (continued)

| Period | Petroleum Coke | | | | | | Natural Gas | | | | | All Fossil Fuels |
|----------------------|----------------|-----------------|---------------------|-------------------|----------------------------------|---------------------------|---------------|----------------|---------------------|-------------------|---------------------------|---------------------|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | Average Cost |
| | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | Average Sulfur Percent by Weight | Percentage of Consumption | (Billion Btu) | (Thousand Mcf) | (Dollars per MMBtu) | (Dollars per Mcf) | Percentage of Consumption | (Dollars per MMBtu) |
| Annual Totals | | | | | | | | | | | | |
| 2003 | 89,618 | 3,165 | 0.74 | 20.94 | 5.51 | 124.0 | 1,486,088 | 1,439,513 | 5.59 | 5.77 | 81.6 | 1.74 |
| 2004 | 107,985 | 3,817 | 0.89 | 25.15 | 5.10 | 92.0 | 1,542,746 | 1,499,933 | 6.15 | 6.33 | 82.9 | 1.87 |
| 2005 | 102,450 | 3,632 | 1.29 | 36.31 | 5.16 | 87.9 | 1,835,221 | 1,780,721 | 8.32 | 8.57 | 83.4 | 2.38 |
| 2006 | 99,471 | 3,516 | 1.49 | 42.21 | 5.11 | 97.2 | 2,222,289 | 2,163,113 | 7.36 | 7.56 | 87.3 | 2.45 |
| 2007 | 84,812 | 2,964 | 1.73 | 49.57 | 5.09 | 105.6 | 2,378,104 | 2,315,637 | 7.47 | 7.67 | 84.6 | 2.61 |
| 2008 | 80,987 | 2,843 | 2.13 | 60.51 | 5.36 | 123.8 | 2,856,354 | 2,784,642 | 9.15 | 9.39 | 102.0 | 3.33 |
| 2009 | 109,126 | 3,833 | 1.68 | 47.84 | 5.02 | 138.8 | 3,033,133 | 2,962,640 | 5.50 | 5.63 | 101.8 | 2.87 |
| 2010 | 103,152 | 3,628 | 2.38 | 67.65 | 5.03 | 109.1 | 3,395,962 | 3,327,919 | 5.43 | 5.54 | 101.1 | 2.99 |
| 2011 | 99,208 | 3,445 | 3.08 | 88.73 | 5.17 | 99.9 | 3,571,348 | 3,507,613 | 5.00 | 5.09 | 101.8 | 3.08 |
| 2012 | 72,782 | 2,521 | 2.30 | 66.40 | 5.46 | 119.8 | 4,083,579 | 4,003,457 | 3.74 | 3.81 | 97.6 | 2.86 |
| 2013 | 99,088 | 3,463 | 2.11 | 60.30 | 5.34 | 101.6 | 3,939,408 | 3,851,241 | 4.49 | 4.59 | 97.0 | 2.99 |
| 2011 | | | | | | | | | | | | |
| January | 8,049 | 282 | 3.35 | 95.62 | 5.29 | 70.5 | 250,362 | 245,767 | 5.49 | 5.59 | 103.0 | 3.03 |
| February | 7,252 | 252 | 3.02 | 87.15 | 5.43 | 85.3 | 219,131 | 214,884 | 5.34 | 5.45 | 102.9 | 2.98 |
| March | 7,009 | 241 | 3.32 | 96.60 | 5.70 | 70.2 | 224,855 | 220,793 | 4.95 | 5.04 | 101.5 | 2.93 |
| April | 7,274 | 252 | 3.52 | 101.68 | 5.20 | 115.4 | 255,479 | 251,362 | 5.19 | 5.27 | 103.1 | 3.07 |
| May | 7,519 | 261 | 3.57 | 102.83 | 5.01 | 112.7 | 278,209 | 273,629 | 5.17 | 5.25 | 101.8 | 3.18 |
| June | 8,072 | 278 | 2.85 | 82.53 | 5.08 | 92.2 | 341,274 | 335,202 | 5.28 | 5.37 | 101.5 | 3.26 |
| July | 10,742 | 374 | 3.41 | 98.06 | 4.79 | 104.0 | 443,001 | 434,122 | 5.11 | 5.22 | 100.9 | 3.31 |
| August | 10,040 | 349 | 3.18 | 91.43 | 5.26 | 105.9 | 434,451 | 425,557 | 4.97 | 5.07 | 101.1 | 3.22 |
| September | 9,822 | 341 | 2.94 | 84.64 | 5.14 | 102.3 | 316,215 | 311,382 | 4.89 | 4.97 | 101.5 | 3.08 |
| October | 8,352 | 289 | 3.23 | 93.48 | 5.11 | 126.2 | 275,463 | 270,541 | 4.71 | 4.80 | 101.4 | 3.01 |
| November | 7,303 | 253 | 2.11 | 60.87 | 5.15 | 163.4 | 250,718 | 246,675 | 4.50 | 4.57 | 101.8 | 2.91 |
| December | 7,774 | 273 | 2.34 | 66.68 | 5.09 | 108.4 | 282,188 | 277,700 | 4.40 | 4.47 | 102.5 | 2.88 |
| 2012 | | | | | | | | | | | | |
| January | 7,379 | 255 | 2.45 | 71.02 | 4.81 | 85.9 | 279,420 | 274,897 | 4.05 | 4.12 | 96.4 | 2.85 |
| February | 6,359 | 217 | 2.46 | 71.86 | 5.19 | 94.5 | 273,306 | 268,688 | 3.72 | 3.79 | 97.7 | 2.78 |
| March | 5,557 | 194 | 1.93 | 55.37 | 5.76 | 181.7 | 293,402 | 288,321 | 3.39 | 3.45 | 97.6 | 2.79 |
| April | 4,870 | 169 | 1.98 | 57.09 | 5.08 | 140.6 | 323,371 | 315,071 | 3.12 | 3.21 | 98.1 | 2.76 |
| May | 4,136 | 143 | 2.75 | 79.88 | 5.42 | 95.2 | 376,312 | 368,744 | 3.27 | 3.33 | 97.8 | 2.79 |
| June | 5,504 | 188 | 2.40 | 70.40 | 5.87 | 110.8 | 400,778 | 392,707 | 3.42 | 3.49 | 97.4 | 2.84 |
| July | 3,695 | 127 | 2.64 | 76.56 | 5.84 | 70.0 | 491,080 | 480,504 | 3.64 | 3.72 | 97.7 | 2.92 |
| August | 5,434 | 188 | 2.62 | 75.86 | 5.63 | 110.5 | 444,330 | 435,215 | 3.80 | 3.88 | 97.3 | 2.91 |
| September | 8,450 | 294 | 2.50 | 71.95 | 5.53 | 162.9 | 356,511 | 349,654 | 3.74 | 3.82 | 97.4 | 2.85 |
| October | 7,203 | 251 | 2.07 | 59.25 | 5.53 | 161.4 | 304,602 | 298,960 | 4.18 | 4.26 | 98.1 | 2.90 |
| November | 6,304 | 221 | 2.00 | 57.04 | 5.51 | 126.3 | 262,811 | 257,894 | 4.49 | 4.58 | 97.3 | 2.91 |
| December | 7,891 | 276 | 2.05 | 58.55 | 5.55 | 162.2 | 277,655 | 272,801 | 4.47 | 4.55 | 98.5 | 2.94 |
| 2013 | | | | | | | | | | | | |
| January | 6,816 | 237 | 1.97 | 56.67 | 5.52 | 93.7 | 308,726 | 302,282 | 4.35 | 4.44 | 97.5 | 2.95 |
| February | 7,272 | 254 | 2.05 | 58.54 | 5.32 | 115.4 | 276,355 | 270,729 | 4.29 | 4.38 | 97.3 | 2.92 |
| March | 5,449 | 190 | 2.00 | 57.27 | 5.37 | 80.5 | 292,291 | 285,901 | 4.44 | 4.54 | 97.4 | 2.99 |
| April | 8,309 | 291 | 2.23 | 63.79 | 5.23 | 133.8 | 267,830 | 262,122 | 4.88 | 4.99 | 97.6 | 3.03 |
| May | 8,610 | 301 | 2.28 | 65.22 | 5.28 | 83.5 | 298,278 | 291,130 | 4.84 | 4.96 | 98.4 | 3.06 |
| June | 8,302 | 291 | 2.36 | 67.19 | 4.88 | 83.7 | 360,943 | 352,719 | 4.65 | 4.75 | 97.1 | 3.06 |
| July | 9,006 | 314 | 2.25 | 64.47 | 5.35 | 93.2 | 427,831 | 417,585 | 4.38 | 4.48 | 96.6 | 3.01 |
| August | 7,910 | 274 | 2.15 | 62.01 | 5.24 | 82.6 | 436,060 | 426,576 | 4.15 | 4.24 | 96.3 | 2.97 |
| September | 10,687 | 373 | 2.09 | 59.92 | 5.32 | 114.6 | 360,603 | 352,812 | 4.35 | 4.44 | 96.7 | 2.97 |
| October | 9,457 | 333 | 2.06 | 58.58 | 5.37 | 114.9 | 309,544 | 302,556 | 4.40 | 4.50 | 96.9 | 2.95 |
| November | 7,486 | 262 | 1.87 | 53.23 | 5.41 | 120.6 | 281,343 | 274,910 | 4.44 | 4.55 | 96.6 | 2.92 |
| December | 9,784 | 343 | 1.93 | 54.95 | 5.75 | 125.9 | 319,604 | 311,919 | 4.93 | 5.05 | 96.3 | 3.10 |

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

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 7.7 Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2003 - 2013

| Period | Coal | | | | | | Petroleum Liquids | | | | | |
|----------------------|---------------|-----------------|---------------------|-------------------|----------------------------------|---------------------------|-------------------|--------------------|---------------------|----------------------|----------------------------------|---------------------------|
| | Receipts | | Average Cost | | Average Sulfur Percent by Weight | Percentage of Consumption | Receipts | | Average Cost | | Average Sulfur Percent by Weight | Percentage of Consumption |
| | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | | | (Billion Btu) | (Thousand Barrels) | (Dollars per MMBtu) | (Dollars per Barrel) | | |
| Annual Totals | | | | | | | | | | | | |
| 2003 | 4,365,996 | 223,984 | 1.34 | 26.20 | 1.15 | 90.4 | 347,546 | 56,138 | 5.41 | 33.50 | 0.58 | 89.7 |
| 2004 | 4,410,775 | 227,700 | 1.41 | 27.27 | 1.13 | 93.3 | 337,011 | 54,152 | 5.35 | 33.31 | 0.61 | 93.6 |
| 2005 | 4,459,333 | 229,071 | 1.56 | 30.39 | 1.10 | 83.0 | 381,871 | 61,753 | 8.30 | 51.34 | 0.54 | 97.2 |
| 2006 | 5,204,402 | 266,856 | 1.69 | 33.04 | 1.09 | 97.7 | 117,524 | 19,236 | 9.65 | 58.98 | 0.45 | 104.9 |
| 2007 | 5,275,454 | 273,216 | 1.71 | 33.11 | 1.06 | 97.5 | 125,025 | 20,486 | 10.49 | 64.01 | 0.45 | 85.0 |
| 2008 | 5,395,142 | 281,258 | 2.03 | 38.98 | 1.04 | 100.4 | 82,124 | 13,657 | 16.30 | 98.03 | 0.41 | 94.4 |
| 2009 | 4,563,080 | 240,687 | 2.11 | 39.94 | 1.06 | 101.1 | 68,030 | 11,408 | 10.02 | 59.76 | 0.37 | 102.0 |
| 2010 | 4,555,898 | 243,585 | 2.20 | 41.15 | 1.21 | 96.0 | 49,598 | 8,420 | 14.80 | 87.19 | 0.35 | 89.9 |
| 2011 | 4,292,284 | 233,295 | 2.28 | 41.95 | 1.25 | 95.9 | 41,599 | 7,096 | 20.30 | 119.01 | 0.50 | 106.9 |
| 2012 | 4,036,436 | 218,341 | 2.21 | 40.92 | 1.42 | 104.9 | 23,922 | 4,073 | 22.34 | 131.28 | 0.44 | 79.8 |
| 2013 | 4,032,431 | 217,572 | 2.20 | 40.95 | 1.48 | 99.1 | 43,432 | 7,205 | 19.71 | 118.88 | 0.45 | 110.1 |
| 2011 | | | | | | | | | | | | |
| January | 381,239 | 20,717 | 2.23 | 40.96 | 1.20 | 86.5 | 4,653 | 783 | 17.44 | 103.58 | 0.56 | 71.2 |
| February | 336,384 | 18,030 | 2.26 | 42.18 | 1.29 | 94.7 | 3,276 | 560 | 18.64 | 108.99 | 0.77 | 118.7 |
| March | 363,257 | 19,787 | 2.26 | 41.58 | 1.19 | 107.9 | 2,270 | 392 | 21.18 | 122.73 | 0.55 | 92.1 |
| April | 330,831 | 17,944 | 2.28 | 42.03 | 1.21 | 102.6 | 3,235 | 550 | 21.43 | 126.18 | 0.27 | 144.8 |
| May | 348,283 | 18,569 | 2.32 | 43.58 | 1.33 | 101.0 | 2,752 | 466 | 21.66 | 127.89 | 0.59 | 108.5 |
| June | 330,390 | 17,898 | 2.34 | 43.25 | 1.23 | 84.4 | 3,232 | 553 | 20.81 | 121.69 | 0.48 | 87.0 |
| July | 351,423 | 19,120 | 2.35 | 43.14 | 1.24 | 79.4 | 5,604 | 955 | 21.18 | 124.33 | 0.40 | 91.4 |
| August | 386,958 | 20,994 | 2.34 | 43.11 | 1.26 | 87.9 | 2,883 | 497 | 16.66 | 96.71 | 0.49 | 86.7 |
| September | 377,183 | 20,755 | 2.31 | 42.04 | 1.25 | 100.2 | 2,674 | 462 | 22.29 | 129.10 | 0.53 | 107.1 |
| October | 379,229 | 20,611 | 2.25 | 41.35 | 1.27 | 109.6 | 3,946 | 655 | 20.28 | 122.12 | 0.52 | 178.5 |
| November | 357,960 | 19,649 | 2.24 | 40.77 | 1.24 | 108.9 | 3,617 | 635 | 20.57 | 117.22 | 0.44 | 175.8 |
| December | 349,148 | 19,221 | 2.18 | 39.64 | 1.23 | 100.0 | 3,457 | 589 | 22.35 | 131.11 | 0.47 | 140.6 |
| 2012 | | | | | | | | | | | | |
| January | 388,350 | 21,060 | 2.26 | 41.77 | 1.31 | 115.4 | 2,714 | 456 | 22.60 | 134.74 | 0.30 | 105.3 |
| February | 337,872 | 18,053 | 2.27 | 42.45 | 1.46 | 113.6 | 1,746 | 295 | 23.54 | 139.55 | 0.43 | 98.9 |
| March | 301,945 | 16,043 | 2.19 | 41.20 | 1.38 | 115.8 | 893 | 151 | 24.81 | 146.34 | 0.43 | 63.0 |
| April | 279,069 | 14,935 | 2.14 | 39.96 | 1.36 | 128.0 | 1,229 | 210 | 25.16 | 147.95 | 0.44 | 77.7 |
| May | 301,903 | 16,397 | 2.21 | 40.78 | 1.39 | 104.1 | 1,913 | 324 | 23.65 | 139.61 | 0.42 | 75.9 |
| June | 319,532 | 17,466 | 2.14 | 39.18 | 1.56 | 98.3 | 2,573 | 433 | 21.63 | 128.42 | 0.44 | 71.3 |
| July | 327,180 | 17,996 | 2.24 | 40.71 | 1.31 | 82.4 | 2,341 | 397 | 20.68 | 121.95 | 0.56 | 61.1 |
| August | 359,430 | 19,491 | 2.25 | 41.57 | 1.42 | 92.8 | 1,813 | 310 | 21.95 | 128.49 | 0.44 | 73.6 |
| September | 347,329 | 18,971 | 2.17 | 39.83 | 1.41 | 106.6 | 1,531 | 262 | W | W | 0.48 | 81.4 |
| October | 360,456 | 19,549 | 2.19 | 40.38 | 1.41 | 113.1 | 1,785 | 306 | 23.25 | 135.64 | 0.43 | 87.1 |
| November | 365,210 | 19,708 | 2.22 | 41.11 | 1.46 | 106.7 | 2,446 | 410 | 22.75 | 135.68 | 0.40 | 108.5 |
| December | 348,160 | 18,669 | 2.24 | 41.72 | 1.50 | 101.0 | 2,937 | 518 | 19.60 | 110.92 | 0.51 | 73.8 |
| 2013 | | | | | | | | | | | | |
| January | 352,557 | 18,976 | 2.21 | 41.20 | 1.51 | 99.1 | 2,963 | 495 | 21.11 | 126.80 | 0.54 | 45.0 |
| February | 308,971 | 16,694 | 2.18 | 40.44 | 1.56 | 93.3 | 4,345 | 712 | 20.68 | 126.61 | 0.51 | 117.8 |
| March | 319,485 | 17,108 | 2.24 | 41.93 | 1.57 | 94.1 | 4,016 | 661 | 19.63 | 119.32 | 0.41 | 206.0 |
| April | 303,157 | 16,041 | 2.21 | 41.98 | 1.60 | 106.6 | 2,074 | 350 | W | W | 0.44 | 94.2 |
| May | 345,413 | 18,316 | 2.23 | 42.25 | 1.53 | 113.7 | 2,404 | 402 | 20.48 | 122.55 | 0.43 | 104.1 |
| June | 331,183 | 17,955 | 2.22 | 40.98 | 1.41 | 95.5 | 2,048 | 344 | 20.51 | 122.17 | 0.43 | 84.9 |
| July | 336,772 | 18,662 | 2.18 | 39.50 | 1.28 | 86.5 | 3,386 | 564 | 20.03 | 120.23 | 0.46 | 68.0 |
| August | 369,852 | 20,185 | 2.16 | 39.71 | 1.41 | 99.2 | 3,449 | 582 | 19.54 | 115.78 | 0.39 | 147.1 |
| September | 361,593 | 19,609 | 2.20 | 40.72 | 1.48 | 101.2 | 4,942 | 821 | 18.64 | 112.29 | 0.40 | 180.6 |
| October | 338,484 | 18,086 | 2.22 | 41.67 | 1.47 | 108.4 | 3,904 | 647 | 19.14 | 115.55 | 0.47 | 175.5 |
| November | 328,769 | 17,596 | 2.18 | 40.82 | 1.50 | 109.0 | 6,401 | 1,051 | 18.52 | 113.07 | 0.49 | 284.8 |
| December | 336,195 | 18,343 | 2.20 | 40.48 | 1.44 | 90.2 | 3,498 | 576 | 19.73 | 119.40 | 0.43 | 61.3 |

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

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 7.8. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2003 - 2013 (continued)

| Period | Petroleum Coke | | | | | | Natural Gas | | | | | All Fossil Fuels |
|----------------------|----------------|-----------------|---------------------|-------------------|----------------------------------|---------------------------|---------------|----------------|---------------------|-------------------|---------------------------|---------------------|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | Average Cost |
| | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | Average Sulfur Percent by Weight | Percentage of Consumption | (Billion Btu) | (Thousand Mcf) | (Dollars per MMBtu) | (Dollars per Mcf) | Percentage of Consumption | (Dollars per MMBtu) |
| Annual Totals | | | | | | | | | | | | |
| 2003 | 59,377 | 2,086 | 0.60 | 17.16 | 4.88 | 64.3 | 3,335,086 | 3,244,368 | 5.33 | 5.48 | 96.2 | 3.15 |
| 2004 | 73,745 | 2,609 | 0.72 | 20.30 | 4.95 | 81.0 | 3,491,942 | 3,403,474 | 5.86 | 6.01 | 93.1 | 3.43 |
| 2005 | 92,706 | 3,277 | 0.90 | 25.42 | 5.09 | 82.9 | 3,675,165 | 3,578,722 | 8.20 | 8.42 | 95.8 | 4.69 |
| 2006 | 85,924 | 3,031 | 1.07 | 30.34 | 5.13 | 87.1 | 3,742,865 | 3,647,102 | 6.66 | 6.84 | 97.4 | 3.82 |
| 2007 | 56,580 | 1,994 | 1.02 | 28.95 | 4.88 | 69.3 | 4,097,825 | 3,990,546 | 6.92 | 7.11 | 97.2 | 4.06 |
| 2008 | 79,122 | 2,788 | 1.47 | 41.85 | 4.63 | 98.8 | 4,061,830 | 3,956,155 | 8.93 | 9.17 | 100.5 | 5.07 |
| 2009 | 49,619 | 1,732 | 1.31 | 37.63 | 3.87 | 93.6 | 4,087,573 | 3,987,721 | 4.30 | 4.41 | 100.7 | 3.18 |
| 2010 | 30,079 | 1,050 | 1.74 | 49.80 | 3.84 | 72.3 | 4,212,611 | 4,119,103 | 4.94 | 5.05 | 100.6 | 3.57 |
| 2011 | 33,643 | 1,175 | 2.54 | 72.85 | 4.55 | 84.6 | 4,252,040 | 4,158,617 | 4.62 | 4.72 | 100.8 | 3.52 |
| 2012 | 23,024 | 801 | 0.82 | 23.98 | 5.49 | 92.1 | 4,810,553 | 4,696,637 | 3.17 | 3.25 | 93.8 | 2.74 |
| 2013 | 16,150 | 575 | W | W | 5.39 | 65.6 | 4,025,263 | 3,917,898 | 4.25 | 4.36 | 92.8 | W |
| 2011 | | | | | | | | | | | | |
| January | 1,730 | 60 | W | W | 4.24 | 46.8 | 309,865 | 303,301 | 5.59 | 5.71 | 100.7 | W |
| February | 1,809 | 64 | W | W | 4.21 | 52.2 | 283,811 | 277,469 | 5.06 | 5.17 | 100.9 | W |
| March | 2,563 | 89 | W | W | 3.37 | 54.8 | 271,713 | 265,931 | 4.57 | 4.67 | 100.6 | W |
| April | 3,046 | 106 | 2.36 | 67.43 | 3.57 | 103.0 | 284,857 | 278,599 | 4.71 | 4.82 | 100.4 | 3.49 |
| May | 3,339 | 116 | 2.44 | 70.04 | 4.01 | 103.9 | 312,436 | 305,861 | 4.75 | 4.85 | 100.9 | 3.54 |
| June | 2,623 | 92 | 1.99 | 56.95 | 4.81 | 78.6 | 379,462 | 371,553 | 4.95 | 5.05 | 100.7 | 3.80 |
| July | 3,119 | 107 | 2.39 | 69.60 | 4.60 | 75.3 | 520,203 | 508,834 | 4.94 | 5.05 | 100.1 | 4.00 |
| August | 3,166 | 110 | W | W | 4.84 | 90.6 | 515,581 | 504,743 | 4.57 | 4.67 | 100.9 | W |
| September | 2,511 | 88 | W | W | 4.87 | 83.4 | 391,415 | 382,298 | 4.39 | 4.49 | 101.3 | W |
| October | 3,603 | 126 | W | W | 5.08 | 139.5 | 320,549 | 313,229 | 4.12 | 4.22 | 101.6 | W |
| November | 2,652 | 94 | W | W | 5.52 | 108.9 | 308,988 | 301,865 | 3.92 | 4.01 | 100.5 | W |
| December | 3,483 | 123 | W | W | 5.08 | 125.6 | 353,160 | 344,934 | 3.86 | 3.95 | 100.6 | W |
| 2012 | | | | | | | | | | | | |
| January | 2,378 | 84 | 0.75 | 21.66 | 5.78 | 81.3 | 349,484 | 341,570 | 3.44 | 3.52 | 93.9 | 2.83 |
| February | 2,027 | 71 | W | W | 5.74 | 80.6 | 354,095 | 345,712 | 3.08 | 3.15 | 93.6 | W |
| March | 2,331 | 81 | W | W | 5.72 | 113.6 | 361,777 | 353,324 | 2.65 | 2.72 | 93.3 | W |
| April | 1,925 | 67 | W | W | 5.46 | 145.3 | 381,808 | 373,193 | 2.34 | 2.40 | 94.9 | W |
| May | 1,868 | 65 | W | W | 5.66 | 105.2 | 421,157 | 411,534 | 2.68 | 2.74 | 94.5 | W |
| June | 2,609 | 90 | 1.52 | 44.78 | 5.17 | 153.1 | 460,670 | 449,871 | 2.85 | 2.92 | 94.4 | 2.59 |
| July | 2,447 | 86 | 1.37 | 40.26 | 5.40 | 119.6 | 568,098 | 555,197 | 3.28 | 3.35 | 94.2 | 2.89 |
| August | 1,096 | 38 | 1.02 | 29.88 | 5.35 | 39.1 | 533,502 | 520,978 | 3.25 | 3.32 | 93.6 | 2.84 |
| September | 832 | 29 | W | W | 5.05 | 40.7 | 431,134 | 420,686 | 3.17 | 3.25 | 94.8 | W |
| October | 951 | 33 | W | W | 5.25 | 45.2 | 351,334 | 342,548 | 3.63 | 3.72 | 94.0 | W |
| November | 2,194 | 76 | W | W | 5.33 | 120.2 | 296,103 | 288,823 | 4.16 | 4.26 | 91.8 | W |
| December | 2,364 | 82 | W | W | 5.58 | 125.5 | 301,391 | 293,201 | 4.03 | 4.14 | 90.9 | W |
| 2013 | | | | | | | | | | | | |
| January | 1,444 | 52 | 0.00 | 0.00 | 5.37 | 67.8 | 305,859 | 297,827 | 4.59 | 4.72 | 92.6 | 3.29 |
| February | 1,424 | 51 | 0.00 | 0.00 | 5.39 | 74.3 | 271,071 | 264,155 | 4.73 | 4.85 | 91.0 | 3.39 |
| March | 1,474 | 53 | 0.00 | 0.00 | 5.36 | 69.9 | 293,315 | 285,996 | 4.36 | 4.47 | 92.2 | 3.27 |
| April | 1,507 | 54 | W | W | 5.44 | 76.0 | 282,900 | 275,394 | 4.56 | 4.68 | 92.9 | W |
| May | 1,628 | 57 | W | W | 5.43 | 118.1 | 304,542 | 296,100 | 4.45 | 4.58 | 92.9 | W |
| June | 1,541 | 54 | W | W | 5.43 | 80.3 | 357,118 | 347,375 | 4.20 | 4.32 | 92.9 | W |
| July | 1,543 | 54 | W | W | 5.37 | 67.4 | 457,359 | 444,633 | 4.06 | 4.17 | 92.9 | W |
| August | 951 | 34 | W | W | 5.36 | 33.2 | 439,538 | 428,028 | 3.67 | 3.77 | 93.5 | W |
| September | 118 | 4 | W | W | 5.22 | 6.1 | 372,893 | 362,795 | 3.83 | 3.94 | 93.9 | W |
| October | 1,492 | 53 | W | W | 5.33 | 73.4 | 311,285 | 302,936 | 3.86 | 3.96 | 93.3 | W |
| November | 1,490 | 52 | 0.00 | 0.00 | 5.43 | 77.3 | 301,695 | 293,861 | 4.03 | 4.14 | 92.9 | 3.11 |
| December | 1,538 | 55 | W | W | 5.42 | 70.9 | 327,686 | 318,797 | 5.05 | 5.19 | 92.4 | W |

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Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 7.9. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2003 - 2013

| Period | Coal | | | | | | Petroleum Liquids | | | | | |
|----------------------|---------------|-----------------|---------------------|-------------------|----------------------------------|---------------------------|-------------------|--------------------|---------------------|----------------------|----------------------------------|---------------------------|
| | Receipts | | Average Cost | | Average Sulfur Percent by Weight | Percentage of Consumption | Receipts | | Average Cost | | Average Sulfur Percent by Weight | Percentage of Consumption |
| | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | | | (Billion Btu) | (Thousand Barrels) | (Dollars per MMBtu) | (Dollars per Barrel) | | |
| Annual Totals | | | | | | | | | | | | |
| 2003 | 8,835 | 372 | 1.99 | 47.24 | 2.43 | 20.5 | 248 | 43 | 7.00 | 40.82 | 0.04 | 3.1 |
| 2004 | 10,682 | 451 | 2.08 | 49.32 | 2.48 | 23.5 | 3,066 | 527 | 6.19 | 35.96 | 0.20 | 26.9 |
| 2005 | 11,081 | 464 | 2.57 | 61.21 | 2.43 | 24.2 | 1,684 | 289 | 8.28 | 48.22 | 0.17 | 18.3 |
| 2006 | 12,207 | 518 | 2.63 | 61.95 | 2.51 | 27.5 | 798 | 137 | 13.50 | 78.70 | 0.17 | 15.5 |
| 2007 | 12,419 | 531 | 2.67 | 62.46 | 2.58 | 27.6 | 249 | 43 | 14.04 | 81.93 | 0.17 | 6.2 |
| 2008 | 43,997 | 2,009 | 2.65 | 58.12 | 1.73 | 99.4 | 3,800 | 633 | 17.84 | 107.10 | 0.37 | 102.0 |
| 2009 | 41,182 | 1,876 | 2.90 | 63.68 | 1.67 | 104.3 | 3,517 | 583 | 10.82 | 65.26 | 0.45 | 122.1 |
| 2010 | 37,778 | 1,747 | 2.82 | 61.06 | 1.77 | 101.6 | 2,395 | 400 | 15.24 | 91.25 | 0.38 | 106.3 |
| 2011 | 35,892 | 1,686 | 2.92 | 62.24 | 1.78 | 101.1 | 1,959 | 325 | 19.67 | 118.66 | 0.55 | 108.0 |
| 2012 | 4,427 | 192 | 3.41 | 78.71 | 2.75 | 13.2 | 247 | 43 | W | W | 0.00 | 11.0 |
| 2013 | 3,507 | 151 | W | W | 3.05 | 11.2 | 0 | 0 | -- | -- | -- | 0.0 |
| 2011 | | | | | | | | | | | | |
| January | 3,297 | 155 | 2.80 | 59.41 | 1.84 | 82.3 | NM | NM | NM | NM | 0.62 | 49.1 |
| February | 3,289 | 154 | 2.88 | 61.47 | 1.79 | 88.9 | NM | NM | NM | NM | 0.63 | 104.3 |
| March | 3,388 | 161 | 2.79 | 58.87 | 1.74 | 97.7 | NM | NM | NM | NM | 0.55 | 165.7 |
| April | 2,649 | 126 | 2.79 | 58.65 | 1.92 | 101.9 | NM | NM | NM | NM | 0.30 | 160.4 |
| May | 2,730 | 127 | 3.08 | 66.22 | 1.75 | 102.4 | NM | NM | NM | NM | 0.72 | 127.4 |
| June | 3,222 | 147 | 3.16 | 68.99 | 1.79 | 113.1 | NM | NM | NM | NM | 0.65 | 215.3 |
| July | 2,954 | 137 | 3.04 | 65.63 | 1.90 | 94.3 | NM | NM | NM | NM | 0.43 | 171.7 |
| August | 2,881 | 132 | 3.12 | 68.18 | 1.88 | 101.9 | NM | NM | NM | NM | 0.51 | 126.1 |
| September | 2,710 | 126 | 3.01 | 64.84 | 1.80 | 102.8 | NM | NM | NM | NM | 0.53 | 71.7 |
| October | 2,789 | 136 | 2.74 | 56.21 | 1.56 | 123.7 | NM | NM | NM | NM | 0.52 | 225.0 |
| November | 2,922 | 140 | 2.82 | 58.95 | 1.72 | 119.0 | NM | NM | NM | NM | 0.52 | 101.0 |
| December | 3,061 | 145 | 2.87 | 60.55 | 1.71 | 104.4 | NM | NM | NM | NM | 0.51 | 163.2 |
| 2012 | | | | | | | | | | | | |
| January | 399 | 17 | W | W | 2.86 | 11.3 | 10 | 2 | 23.14 | 133.20 | 0.00 | 2.2 |
| February | 394 | 17 | 3.62 | 83.49 | 2.90 | 12.7 | 2 | 0 | W | W | 0.00 | 1.7 |
| March | 416 | 18 | 3.50 | 81.68 | 2.65 | 14.0 | 2 | 0 | W | W | 0.00 | 1.5 |
| April | 523 | 22 | W | W | 1.62 | 21.2 | 14 | 3 | W | W | 0.00 | 13.8 |
| May | 409 | 18 | 3.71 | 85.51 | 2.70 | 16.4 | 5 | 1 | W | W | 0.00 | 3.3 |
| June | 291 | 13 | W | W | 2.57 | 11.7 | 48 | 8 | W | W | 0.00 | 30.3 |
| July | 239 | 10 | W | W | 2.87 | 8.6 | 21 | 4 | W | W | 0.00 | 6.5 |
| August | 464 | 21 | W | W | 2.69 | 17.1 | 47 | 8 | W | W | 0.00 | 24.8 |
| September | 241 | 11 | W | W | 3.13 | 9.9 | 19 | 3 | W | W | 0.00 | 16.5 |
| October | 159 | 7 | W | W | 3.53 | 6.9 | 42 | 7 | W | W | 0.00 | 31.5 |
| November | 380 | 17 | W | W | 3.19 | 13.5 | 18 | 3 | W | W | 0.00 | 10.1 |
| December | 511 | 22 | 2.94 | 67.86 | 3.21 | 15.7 | 18 | 3 | W | W | 0.00 | 10.3 |
| 2013 | | | | | | | | | | | | |
| January | 390 | 17 | W | W | 2.99 | 11.2 | 0 | 0 | -- | -- | -- | 0.0 |
| February | 394 | 17 | W | W | 3.07 | 12.2 | 0 | 0 | -- | -- | -- | 0.0 |
| March | 489 | 21 | W | W | 2.74 | 16.0 | 0 | 0 | -- | -- | -- | 0.0 |
| April | 241 | 10 | W | W | 3.04 | 10.4 | 0 | 0 | -- | -- | -- | 0.0 |
| May | 383 | 17 | W | W | 2.96 | 15.8 | 0 | 0 | -- | -- | -- | 0.0 |
| June | 355 | 16 | W | W | 2.91 | 15.2 | 0 | 0 | -- | -- | -- | 0.0 |
| July | 209 | 9 | W | W | 3.41 | 8.9 | 0 | 0 | -- | -- | -- | 0.0 |
| August | 386 | 17 | W | W | 2.82 | 16.3 | 0 | 0 | -- | -- | -- | 0.0 |
| September | 143 | 6 | W | W | 3.37 | 6.4 | 0 | 0 | -- | -- | -- | 0.0 |
| October | 61 | 3 | W | W | 3.34 | 2.9 | 0 | 0 | -- | -- | -- | 0.0 |
| November | 202 | 9 | W | W | 3.52 | 7.9 | 0 | 0 | -- | -- | -- | 0.0 |
| December | 254 | 11 | W | W | 3.45 | 8.6 | 0 | 0 | -- | -- | -- | 0.0 |

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Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

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Table 7.10. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2003 - 2013 (continued)

| Period | Petroleum Coke | | | | | | Natural Gas | | | | | All Fossil Fuels |
|----------------------|----------------|-----------------|---------------------|-------------------|----------------------------------|---------------------------|---------------|----------------|---------------------|-------------------|---------------------------|---------------------|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | Average Cost |
| | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | Average Sulfur Percent by Weight | Percentage of Consumption | (Billion Btu) | (Thousand Mcf) | (Dollars per MMBtu) | (Dollars per Mcf) | Percentage of Consumption | (Dollars per MMBtu) |
| Annual Totals | | | | | | | | | | | | |
| 2003 | 0 | 0 | -- | -- | -- | 0.0 | 18,169 | 17,827 | 4.96 | 5.06 | 30.5 | 4.02 |
| 2004 | 0 | 0 | -- | -- | -- | 0.0 | 16,176 | 15,804 | 5.93 | 6.07 | 21.9 | 4.58 |
| 2005 | 0 | 0 | -- | -- | -- | 0.0 | 17,600 | 17,142 | 8.38 | 8.60 | 25.2 | 6.25 |
| 2006 | 0 | 0 | -- | -- | -- | 0.0 | 21,369 | 20,819 | 8.33 | 8.55 | 30.7 | 6.42 |
| 2007 | 0 | 0 | -- | -- | -- | 0.0 | 23,502 | 22,955 | 7.99 | 8.18 | 32.8 | 6.20 |
| 2008 | 370 | 14 | 2.14 | 58.36 | 5.53 | 135.3 | 71,670 | 69,877 | 9.01 | 9.24 | 105.5 | 6.94 |
| 2009 | 252 | 9 | 1.65 | 46.54 | 5.11 | 102.8 | 81,134 | 79,308 | 5.18 | 5.30 | 105.0 | 4.58 |
| 2010 | 410 | 15 | 2.19 | 60.59 | 5.67 | 122.5 | 92,055 | 90,130 | 5.39 | 5.51 | 105.1 | 4.83 |
| 2011 | 268 | 9 | W | W | 5.46 | 147.4 | 95,287 | 93,306 | 5.20 | 5.31 | 107.2 | W |
| 2012 | 0 | 0 | -- | -- | -- | 0.0 | 18,315 | 18,008 | 5.88 | 5.98 | 16.2 | W |
| 2013 | 0 | 0 | -- | -- | -- | 0.0 | 5,497 | 5,450 | W | W | 4.6 | W |
| 2011 | | | | | | | | | | | | |
| January | 42 | 1 | W | W | 5.16 | 98.3 | NM | NM | 6.00 | 6.13 | 107.7 | W |
| February | 36 | 1 | W | W | 5.29 | 105.1 | NM | NM | 5.76 | 5.88 | 108.6 | W |
| March | 34 | 1 | W | W | 5.54 | 81.8 | NM | NM | 5.46 | 5.58 | 107.0 | W |
| April | NM | NM | W | W | 5.45 | 0.0 | NM | NM | 5.40 | 5.52 | 106.3 | W |
| May | NM | NM | W | W | 5.83 | 0.0 | NM | NM | 5.28 | 5.39 | 105.7 | W |
| June | NM | NM | W | W | 5.83 | 0.0 | NM | NM | 5.40 | 5.51 | 106.3 | W |
| July | NM | NM | W | W | 5.83 | 0.0 | NM | NM | 5.24 | 5.35 | 104.5 | W |
| August | NM | NM | W | W | 5.83 | 0.0 | NM | NM | 5.09 | 5.20 | 106.4 | W |
| September | NM | NM | W | W | 5.83 | 0.0 | NM | NM | 4.92 | 5.04 | 108.2 | W |
| October | NM | NM | W | W | 5.27 | 0.0 | NM | NM | 4.87 | 4.98 | 107.5 | W |
| November | NM | NM | W | W | 5.34 | 62.8 | NM | NM | 4.68 | 4.77 | 110.3 | W |
| December | 44 | 2 | W | W | 5.29 | 98.8 | NM | NM | 4.61 | 4.70 | 109.0 | W |
| 2012 | | | | | | | | | | | | |
| January | 0 | 0 | -- | -- | -- | 0.0 | 1,688 | 1,657 | 6.82 | 6.95 | 18.1 | W |
| February | 0 | 0 | -- | -- | -- | 0.0 | 1,758 | 1,727 | 6.32 | 6.43 | 19.6 | W |
| March | 0 | 0 | -- | -- | -- | 0.0 | 1,587 | 1,560 | 6.24 | 6.35 | 17.6 | W |
| April | 0 | 0 | -- | -- | -- | 0.0 | 1,465 | 1,438 | 5.45 | 5.55 | 16.9 | W |
| May | 0 | 0 | -- | -- | -- | 0.0 | 1,230 | 1,208 | 5.51 | 5.61 | 13.7 | W |
| June | 0 | 0 | -- | -- | -- | 0.0 | 1,265 | 1,244 | 5.49 | 5.58 | 12.9 | W |
| July | 0 | 0 | -- | -- | -- | 0.0 | 1,530 | 1,507 | 5.30 | 5.39 | 12.4 | W |
| August | 0 | 0 | -- | -- | -- | 0.0 | 1,273 | 1,255 | 5.79 | 5.88 | 11.9 | W |
| September | 0 | 0 | -- | -- | -- | 0.0 | 1,495 | 1,477 | 5.25 | 5.32 | 15.9 | W |
| October | 0 | 0 | -- | -- | -- | 0.0 | 1,733 | 1,705 | 5.47 | 5.56 | 19.8 | W |
| November | 0 | 0 | -- | -- | -- | 0.0 | 1,593 | 1,565 | 6.41 | 6.52 | 18.9 | W |
| December | 0 | 0 | -- | -- | -- | 0.0 | 1,698 | 1,666 | 6.17 | 6.29 | 20.1 | W |
| 2013 | | | | | | | | | | | | |
| January | 0 | 0 | -- | -- | -- | 0.0 | 330 | 327 | W | W | 3.4 | W |
| February | 0 | 0 | -- | -- | -- | 0.0 | 361 | 357 | W | W | 4.1 | W |
| March | 0 | 0 | -- | -- | -- | 0.0 | 382 | 378 | W | W | 4.0 | W |
| April | 0 | 0 | -- | -- | -- | 0.0 | 375 | 371 | W | W | 4.3 | W |
| May | 0 | 0 | -- | -- | -- | 0.0 | 467 | 464 | W | W | 5.2 | W |
| June | 0 | 0 | -- | -- | -- | 0.0 | 404 | 401 | W | W | 4.2 | W |
| July | 0 | 0 | -- | -- | -- | 0.0 | 445 | 440 | W | W | 3.6 | W |
| August | 0 | 0 | -- | -- | -- | 0.0 | 414 | 411 | W | W | 3.7 | W |
| September | 0 | 0 | -- | -- | -- | 0.0 | 560 | 554 | W | W | 5.4 | W |
| October | 0 | 0 | -- | -- | -- | 0.0 | 633 | 629 | W | W | 6.9 | W |
| November | 0 | 0 | -- | -- | -- | 0.0 | 529 | 524 | W | W | 5.7 | W |
| December | 0 | 0 | -- | -- | -- | 0.0 | 599 | 592 | W | W | 5.5 | W |

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Table 7.11. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2003 - 2013

| Period | Coal | | | | | | Petroleum Liquids | | | | | |
|----------------------|---------------|-----------------|---------------------|-------------------|----------------------------------|---------------------------|-------------------|--------------------|---------------------|----------------------|----------------------------------|---------------------------|
| | Receipts | | Average Cost | | Average Sulfur Percent by Weight | Percentage of Consumption | Receipts | | Average Cost | | Average Sulfur Percent by Weight | Percentage of Consumption |
| | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | | | (Billion Btu) | (Thousand Barrels) | (Dollars per MMBtu) | (Dollars per Barrel) | | |
| Annual Totals | | | | | | | | | | | | |
| 2003 | 322,547 | 15,076 | 1.45 | 31.01 | 1.37 | 60.7 | 27,538 | 4,624 | 4.85 | 28.86 | 1.25 | 23.2 |
| 2004 | 326,495 | 15,324 | 1.63 | 34.79 | 1.43 | 57.6 | 25,491 | 4,107 | 4.98 | 30.93 | 1.38 | 18.5 |
| 2005 | 339,968 | 16,011 | 1.94 | 41.17 | 1.42 | 61.9 | 36,383 | 5,876 | 6.64 | 41.13 | 1.36 | 26.4 |
| 2006 | 320,640 | 15,208 | 2.03 | 42.76 | 1.47 | 60.2 | 19,514 | 3,214 | 7.57 | 45.95 | 1.30 | 21.2 |
| 2007 | 303,091 | 13,540 | 2.20 | 49.16 | 1.36 | 60.1 | 33,637 | 5,514 | 8.53 | 52.06 | 1.33 | 38.8 |
| 2008 | 493,724 | 22,044 | 2.72 | 60.96 | 1.28 | 100.7 | 48,822 | 7,958 | 12.50 | 76.69 | 1.01 | 109.0 |
| 2009 | 431,686 | 19,661 | 2.81 | 61.68 | 1.22 | 99.5 | 55,899 | 9,232 | 9.83 | 59.52 | 0.83 | 112.8 |
| 2010 | 468,991 | 21,492 | 2.75 | 60.08 | 1.26 | 87.2 | 33,276 | 5,554 | 13.21 | 79.15 | 0.93 | 125.6 |
| 2011 | 476,108 | 22,204 | 2.93 | 62.86 | 1.33 | 99.5 | 28,939 | 4,878 | 17.67 | 104.83 | 1.08 | 144.8 |
| 2012 | 285,172 | 13,206 | 3.02 | 65.24 | 1.33 | 65.8 | 6,739 | 1,095 | W | W | 1.52 | 40.8 |
| 2013 | 275,543 | 12,727 | W | W | 1.32 | 64.4 | 2,431 | 394 | 18.20 | 112.29 | 1.43 | 15.8 |
| 2011 | | | | | | | | | | | | |
| January | 41,774 | 1,929 | 2.88 | 62.38 | 1.31 | 92.7 | 3,443 | 575 | 15.11 | 90.47 | 1.33 | 124.6 |
| February | 36,699 | 1,689 | 2.89 | 62.91 | 1.34 | 93.8 | 2,346 | 394 | 15.91 | 94.86 | 1.27 | 114.7 |
| March | 38,893 | 1,813 | 2.86 | 61.26 | 1.36 | 95.8 | 2,408 | 404 | 17.46 | 104.16 | 1.17 | 129.5 |
| April | 38,978 | 1,827 | 2.93 | 62.47 | 1.28 | 102.3 | 2,648 | 446 | 17.97 | 106.58 | 0.86 | 173.1 |
| May | 36,984 | 1,731 | 2.97 | 63.47 | 1.27 | 94.3 | NM | NM | NM | NM | 1.16 | 225.1 |
| June | 39,329 | 1,826 | 2.93 | 63.01 | 1.34 | 99.1 | 2,628 | 447 | 19.51 | 114.66 | 0.94 | 176.7 |
| July | 39,487 | 1,850 | 2.96 | 63.18 | 1.32 | 95.1 | 1,869 | 318 | 19.19 | 112.81 | 0.99 | 141.5 |
| August | 44,259 | 2,057 | 3.01 | 64.88 | 1.36 | 104.8 | 1,840 | 308 | 16.33 | 97.49 | 1.08 | 132.6 |
| September | 40,384 | 1,886 | 2.91 | 62.21 | 1.35 | 105.5 | 1,785 | 301 | 18.39 | 109.02 | 1.02 | 129.7 |
| October | 38,861 | 1,824 | 2.94 | 62.68 | 1.30 | 104.4 | 2,410 | 407 | 18.70 | 110.71 | 0.87 | 143.6 |
| November | 38,803 | 1,816 | 2.94 | 62.81 | 1.39 | 106.1 | NM | NM | 18.91 | 110.85 | 0.99 | 154.1 |
| December | 41,657 | 1,957 | 2.96 | 62.90 | 1.33 | 101.7 | 1,957 | 329 | 19.58 | 116.55 | 1.15 | 122.4 |
| 2012 | | | | | | | | | | | | |
| January | 26,254 | 1,221 | W | W | 1.35 | 60.6 | 700 | 113 | 17.49 | 108.36 | 1.64 | 23.6 |
| February | 22,263 | 1,040 | 2.99 | 63.96 | 1.36 | 56.8 | 503 | 82 | W | W | 1.46 | 37.0 |
| March | 22,967 | 1,071 | 3.06 | 65.58 | 1.23 | 63.6 | 879 | 147 | W | W | 1.15 | 54.3 |
| April | 22,649 | 1,044 | W | W | 1.37 | 70.5 | 538 | 87 | W | W | 1.47 | 44.5 |
| May | 22,811 | 1,053 | 3.07 | 66.43 | 1.42 | 67.4 | 556 | 91 | W | W | 1.40 | 45.8 |
| June | 22,523 | 1,037 | W | W | 1.45 | 66.8 | 515 | 84 | W | W | 1.52 | 50.8 |
| July | 24,473 | 1,143 | W | W | 1.30 | 66.8 | 776 | 125 | W | W | 1.63 | 74.9 |
| August | 26,133 | 1,208 | W | W | 1.36 | 70.9 | 540 | 88 | W | W | 1.62 | 47.6 |
| September | 23,802 | 1,098 | W | W | 1.24 | 71.5 | 413 | 66 | W | W | 1.71 | 40.5 |
| October | 24,214 | 1,117 | W | W | 1.28 | 70.4 | 394 | 64 | W | W | 1.58 | 25.8 |
| November | 23,495 | 1,089 | W | W | 1.32 | 66.0 | 359 | 58 | W | W | 1.54 | 31.5 |
| December | 23,589 | 1,085 | 3.02 | 65.67 | 1.30 | 61.9 | 565 | 91 | W | W | 1.67 | 43.2 |
| 2013 | | | | | | | | | | | | |
| January | 22,923 | 1,071 | W | W | 1.23 | 60.6 | 330 | 53 | 18.32 | 113.35 | 1.58 | 20.1 |
| February | 20,789 | 962 | W | W | 1.31 | 60.2 | 214 | 35 | 18.09 | 110.29 | 1.33 | 15.3 |
| March | 23,120 | 1,078 | W | W | 1.24 | 61.7 | 318 | 52 | 18.11 | 111.18 | 1.25 | 26.9 |
| April | 21,566 | 986 | W | W | 1.35 | 63.0 | 226 | 36 | W | W | 1.63 | 18.6 |
| May | 23,533 | 1,082 | W | W | 1.31 | 66.8 | 244 | 39 | 17.85 | 110.67 | 1.41 | 19.2 |
| June | 22,312 | 1,032 | W | W | 1.18 | 66.0 | 246 | 40 | 18.19 | 112.54 | 1.69 | 22.2 |
| July | 24,077 | 1,120 | W | W | 1.29 | 67.0 | 208 | 33 | 17.37 | 108.22 | 1.66 | 20.8 |
| August | 24,220 | 1,116 | W | W | 1.30 | 68.6 | 161 | 26 | 18.55 | 113.24 | 1.38 | 17.0 |
| September | 23,042 | 1,066 | W | W | 1.37 | 69.7 | 80 | 13 | 18.61 | 114.88 | 1.32 | 8.8 |
| October | 22,581 | 1,031 | W | W | 1.38 | 63.7 | 102 | 17 | 19.09 | 118.20 | 0.80 | 10.1 |
| November | 23,845 | 1,092 | W | W | 1.42 | 64.9 | 104 | 17 | 19.02 | 115.77 | 1.00 | 9.5 |
| December | 23,534 | 1,091 | W | W | 1.40 | 61.8 | 198 | 32 | 18.35 | 113.33 | 1.25 | 7.7 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

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See Glossary for definitions.

Values are final.

See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 7.12. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2003 - 2013 (continued)

| Period | Petroleum Coke | | | | | | Natural Gas | | | | | All Fossil Fuels |
|----------------------|----------------|-----------------|---------------------|-------------------|----------------------------------|---------------------------|---------------|----------------|---------------------|-------------------|---------------------------|---------------------|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | Average Cost |
| | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | Average Sulfur Percent by Weight | Percentage of Consumption | (Billion Btu) | (Thousand Mcf) | (Dollars per MMBtu) | (Dollars per Mcf) | Percentage of Consumption | (Dollars per MMBtu) |
| Annual Totals | | | | | | | | | | | | |
| 2003 | 16,383 | 594 | 1.04 | 28.74 | 5.73 | 47.3 | 823,681 | 798,996 | 5.32 | 5.48 | 69.9 | 4.20 |
| 2004 | 14,876 | 540 | 0.98 | 27.01 | 5.59 | 40.4 | 839,886 | 814,843 | 6.04 | 6.22 | 68.4 | 4.76 |
| 2005 | 16,620 | 594 | 1.21 | 33.75 | 5.44 | 58.2 | 828,882 | 805,132 | 8.00 | 8.24 | 74.3 | 6.18 |
| 2006 | 17,875 | 646 | 1.63 | 45.05 | 5.43 | 42.7 | 869,157 | 844,211 | 7.02 | 7.22 | 75.7 | 5.64 |
| 2007 | 19,700 | 698 | 1.96 | 55.42 | 5.52 | 43.6 | 896,803 | 871,178 | 6.97 | 7.18 | 82.9 | 5.78 |
| 2008 | 39,246 | 1,396 | 3.34 | 93.84 | 4.92 | 117.9 | 1,099,613 | 1,068,372 | 8.95 | 9.22 | 111.9 | 7.10 |
| 2009 | 38,924 | 1,381 | 1.80 | 50.82 | 4.51 | 114.2 | 1,117,489 | 1,088,880 | 4.27 | 4.38 | 110.0 | 4.02 |
| 2010 | 35,866 | 1,269 | 2.46 | 69.38 | 4.90 | 100.5 | 1,166,768 | 1,135,917 | 4.64 | 4.77 | 110.4 | 4.24 |
| 2011 | 37,981 | 1,351 | W | W | 5.03 | 108.3 | 1,331,977 | 1,296,628 | 4.28 | 4.40 | 122.0 | W |
| 2012 | 23,861 | 858 | 2.62 | 72.96 | 5.86 | 42.2 | 834,245 | 813,288 | 2.97 | 3.05 | 70.8 | W |
| 2013 | 17,236 | 623 | W | W | 5.82 | 30.5 | 750,946 | 728,835 | W | W | 62.3 | W |
| 2011 | | | | | | | | | | | | |
| January | 3,075 | 110 | 3.16 | 88.56 | 4.70 | 96.3 | 112,015 | 109,254 | 4.54 | 4.65 | 122.0 | 4.31 |
| February | 2,430 | 86 | 2.99 | 83.98 | 4.66 | 84.3 | 99,431 | 96,876 | 4.55 | 4.67 | 120.3 | 4.28 |
| March | 2,687 | 95 | 3.24 | 91.51 | 4.75 | 100.0 | 102,958 | 100,259 | 4.08 | 4.19 | 122.8 | 3.96 |
| April | 2,336 | 83 | W | W | 4.46 | 78.3 | 103,922 | 101,255 | 4.43 | 4.55 | 122.0 | W |
| May | 2,259 | 81 | W | W | 4.97 | 74.5 | 108,328 | 105,579 | 4.53 | 4.65 | 121.4 | W |
| June | 2,558 | 91 | W | W | 5.03 | 88.9 | 109,529 | 106,731 | 4.61 | 4.74 | 121.7 | W |
| July | 4,019 | 141 | W | W | 5.13 | 144.0 | 120,609 | 117,663 | 4.62 | 4.73 | 121.0 | W |
| August | 3,728 | 132 | W | W | 5.17 | 140.7 | 126,012 | 122,745 | 4.48 | 4.60 | 123.4 | W |
| September | 3,738 | 132 | W | W | 5.27 | 125.0 | 117,462 | 112,976 | 4.19 | 4.36 | 124.7 | W |
| October | 3,512 | 126 | W | W | 5.17 | 114.9 | 106,879 | 104,110 | 3.96 | 4.06 | 123.2 | W |
| November | 3,267 | 117 | W | W | 5.29 | 113.3 | 109,257 | 106,529 | 3.69 | 3.78 | 123.8 | W |
| December | 4,372 | 156 | W | W | 5.25 | 143.8 | 115,575 | 112,652 | 3.67 | 3.76 | 117.9 | W |
| 2012 | | | | | | | | | | | | |
| January | 1,461 | 54 | 3.34 | 91.14 | 5.57 | 26.5 | 71,420 | 69,608 | 3.21 | 3.30 | 73.8 | W |
| February | 428 | 16 | W | W | 5.31 | 10.5 | 65,859 | 64,147 | 2.85 | 2.93 | 72.2 | W |
| March | 1,900 | 68 | W | W | 5.33 | 44.1 | 67,637 | 65,868 | 2.58 | 2.66 | 72.5 | W |
| April | 2,282 | 82 | W | W | 5.64 | 61.4 | 67,492 | 65,641 | 2.34 | 2.41 | 72.7 | W |
| May | 2,579 | 93 | W | W | 5.53 | 69.1 | 68,198 | 66,297 | 2.38 | 2.46 | 69.8 | W |
| June | 2,062 | 73 | 2.59 | 72.74 | 5.79 | 48.2 | 70,695 | 68,812 | 2.65 | 2.73 | 70.4 | W |
| July | 1,419 | 51 | 2.58 | 71.62 | 6.07 | 29.9 | 73,402 | 71,204 | 2.94 | 3.04 | 66.4 | W |
| August | 2,088 | 75 | 2.60 | 72.32 | 6.13 | 37.0 | 71,324 | 70,263 | 3.12 | 3.17 | 67.1 | W |
| September | 2,643 | 95 | W | W | 6.16 | 53.0 | 66,883 | 65,236 | 2.83 | 2.91 | 68.3 | W |
| October | 1,760 | 63 | W | W | 6.27 | 38.0 | 68,718 | 67,113 | 3.20 | 3.28 | 71.8 | W |
| November | 2,466 | 88 | W | W | 6.01 | 44.7 | 68,292 | 66,625 | 3.61 | 3.71 | 71.7 | W |
| December | 2,773 | 100 | W | W | 6.05 | 52.9 | 74,324 | 72,475 | 3.81 | 3.91 | 74.0 | W |
| 2013 | | | | | | | | | | | | |
| January | 1,844 | 67 | 2.30 | 63.72 | 6.13 | 34.8 | 61,781 | 60,209 | W | W | 60.2 | W |
| February | 1,058 | 38 | 2.38 | 65.94 | 6.03 | 30.4 | 59,307 | 57,544 | W | W | 64.4 | W |
| March | 1,317 | 47 | 2.40 | 67.24 | 6.03 | 26.2 | 63,464 | 61,243 | W | W | 63.0 | W |
| April | 1,424 | 51 | W | W | 5.96 | 30.6 | 58,374 | 56,733 | W | W | 61.4 | W |
| May | 1,520 | 54 | W | W | 5.82 | 28.5 | 62,146 | 60,458 | W | W | 64.7 | W |
| June | 1,686 | 61 | W | W | 5.70 | 32.1 | 64,256 | 62,350 | W | W | 65.2 | W |
| July | 1,666 | 59 | W | W | 5.99 | 30.2 | 63,859 | 61,986 | W | W | 59.3 | W |
| August | 2,041 | 72 | W | W | 5.94 | 33.2 | 64,617 | 62,815 | W | W | 60.6 | W |
| September | 1,565 | 56 | W | W | 5.68 | 34.3 | 60,028 | 58,253 | W | W | 60.9 | W |
| October | 1,252 | 46 | W | W | 5.36 | 29.1 | 62,118 | 60,239 | W | W | 63.0 | W |
| November | 677 | 25 | 2.36 | 65.25 | 5.58 | 21.5 | 64,376 | 62,456 | W | W | 64.0 | W |
| December | 1,189 | 45 | W | W | 5.28 | 31.4 | 66,621 | 64,548 | W | W | 61.4 | W |

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**Table 7.13. Receipts of Coal Delivered for Electricity Generation by State, 2013 and 2012
(Thousand Tons)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|------------------------------|-----------------------|-----------|----------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 2,917 | 1,146 | 155.0% | 726 | 353 | 2,163 | 773 | 0 | 0 | 28 | 19 |
| Connecticut | 320 | 41 | 671.0% | 0 | 0 | 320 | 41 | 0 | 0 | 0 | 0 |
| Maine | 66 | 51 | 29.0% | 0 | 0 | 38 | 32 | 0 | 0 | 28 | 19 |
| Massachusetts | 1,805 | 700 | 158.0% | 0 | 0 | 1,805 | 700 | 0 | 0 | 0 | 0 |
| New Hampshire | 726 | 353 | 106.0% | 726 | 353 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 42,558 | 43,998 | -3.3% | 0 | 0 | 41,664 | 43,082 | 0 | 0 | 893 | 916 |
| New Jersey | 1,105 | 1,059 | 4.3% | 0 | 0 | 1,105 | 1,059 | 0 | 0 | 0 | 0 |
| New York | 2,467 | 2,218 | 11.0% | 0 | 0 | 2,127 | 1,884 | 0 | 0 | 341 | 333 |
| Pennsylvania | 38,986 | 40,721 | -4.3% | 0 | 0 | 38,433 | 40,138 | 0 | 0 | 552 | 583 |
| East North Central | 185,713 | 182,345 | 1.8% | 122,129 | 117,309 | 60,337 | 61,732 | 58 | 111 | 3,189 | 3,193 |
| Illinois | 59,536 | 61,119 | -2.6% | 6,391 | 6,163 | 50,924 | 52,682 | 0 | 42 | 2,221 | 2,232 |
| Indiana | 36,386 | 36,672 | -0.8% | 33,802 | 33,943 | 2,585 | 2,729 | 0 | 0 | 0 | 0 |
| Michigan | 29,349 | 29,547 | -0.7% | 29,010 | 29,218 | 172 | 214 | 58 | 69 | 110 | 46 |
| Ohio | 37,839 | 35,005 | 8.1% | 30,933 | 28,628 | 6,657 | 6,108 | 0 | 0 | 250 | 269 |
| Wisconsin | 22,602 | 20,003 | 13.0% | 21,994 | 19,357 | 0 | 0 | 0 | 0 | 608 | 646 |
| West North Central | 133,327 | 139,220 | -4.2% | 129,798 | 135,816 | 0 | 0 | 94 | 81 | 3,435 | 3,323 |
| Iowa | 20,286 | 24,436 | -17.0% | 17,979 | 22,264 | 0 | 0 | 0 | 0 | 2,308 | 2,172 |
| Kansas | 18,424 | 17,919 | 2.8% | 18,424 | 17,919 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 13,266 | 13,125 | 1.1% | 12,908 | 12,729 | 0 | 0 | 0 | 0 | 358 | 396 |
| Missouri | 41,138 | 43,850 | -6.2% | 41,044 | 43,768 | 0 | 0 | 94 | 81 | 0 | 0 |
| Nebraska | 15,761 | 15,368 | 2.6% | 14,991 | 14,613 | 0 | 0 | 0 | 0 | 769 | 755 |
| North Dakota | 22,665 | 22,708 | -0.2% | 22,665 | 22,708 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 1,788 | 1,813 | -1.4% | 1,788 | 1,813 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 111,898 | 118,709 | -5.7% | 87,605 | 94,956 | 22,058 | 21,351 | 0 | 0 | 2,235 | 2,402 |
| Delaware | 614 | 645 | -4.9% | 0 | 0 | 614 | 645 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 19,754 | 18,400 | 7.4% | 18,766 | 17,388 | 756 | 770 | 0 | 0 | 232 | 242 |
| Georgia | 19,015 | 23,258 | -18.0% | 18,651 | 22,863 | 0 | 0 | 0 | 0 | 364 | 395 |
| Maryland | 6,828 | 7,025 | -2.8% | 0 | 0 | 6,490 | 6,634 | 0 | 0 | 337 | 390 |
| North Carolina | 16,296 | 19,811 | -18.0% | 15,038 | 18,726 | 877 | 699 | 0 | 0 | 381 | 386 |
| South Carolina | 9,130 | 11,606 | -21.0% | 8,981 | 11,400 | 0 | 27 | 0 | 0 | 149 | 179 |
| Virginia | 9,640 | 6,528 | 48.0% | 8,426 | 5,327 | 760 | 728 | 0 | 0 | 454 | 473 |
| West Virginia | 30,621 | 31,436 | -2.6% | 17,742 | 19,252 | 12,561 | 11,847 | 0 | 0 | 318 | 337 |
| East South Central | 85,706 | 89,288 | -4.0% | 80,432 | 83,677 | 3,685 | 3,940 | 0 | 0 | 1,589 | 1,670 |
| Alabama | 22,582 | 24,639 | -8.3% | 22,582 | 24,544 | 0 | 0 | 0 | 0 | 0 | 94 |
| Kentucky | 39,161 | 39,483 | -0.8% | 39,161 | 39,483 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 5,783 | 6,590 | -12.0% | 2,098 | 2,651 | 3,685 | 3,940 | 0 | 0 | 0 | 0 |
| Tennessee | 18,181 | 18,576 | -2.1% | 16,591 | 16,999 | 0 | 0 | 0 | 0 | 1,589 | 1,576 |
| West South Central | 147,020 | 152,230 | -3.4% | 74,409 | 77,882 | 72,129 | 73,848 | 0 | 0 | 482 | 500 |
| Arkansas | 17,641 | 16,969 | 4.0% | 15,558 | 14,503 | 2,083 | 2,466 | 0 | 0 | 0 | 0 |
| Louisiana | 13,990 | 15,586 | -10.0% | 7,094 | 8,073 | 6,896 | 7,513 | 0 | 0 | 0 | 0 |
| Oklahoma | 17,472 | 19,605 | -11.0% | 15,889 | 17,871 | 1,101 | 1,233 | 0 | 0 | 482 | 500 |
| Texas | 97,917 | 100,071 | -2.2% | 35,868 | 37,435 | 62,049 | 62,636 | 0 | 0 | 0 | 0 |
| Mountain | 107,007 | 108,207 | -1.1% | 96,075 | 97,626 | 10,702 | 10,142 | 0 | 0 | 230 | 438 |
| Arizona | 21,589 | 23,238 | -7.1% | 21,589 | 23,029 | 0 | 0 | 0 | 0 | 0 | 208 |
| Colorado | 18,056 | 18,687 | -3.4% | 18,056 | 18,687 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 9,262 | 8,808 | 5.2% | 292 | 248 | 8,970 | 8,560 | 0 | 0 | 0 | 0 |
| Nevada | 2,268 | 2,215 | 2.4% | 1,482 | 1,580 | 786 | 635 | 0 | 0 | 0 | 0 |
| New Mexico | 14,153 | 14,604 | -3.1% | 14,153 | 14,604 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 15,043 | 13,834 | 8.7% | 14,383 | 13,159 | 430 | 445 | 0 | 0 | 230 | 230 |
| Wyoming | 26,637 | 26,821 | -0.7% | 26,121 | 26,319 | 516 | 502 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 6,348 | 5,375 | 18.0% | 1,597 | 1,826 | 4,105 | 2,806 | 0 | 0 | 646 | 743 |
| California | 793 | 935 | -15.0% | 0 | 0 | 148 | 292 | 0 | 0 | 646 | 643 |
| Oregon | 1,597 | 1,826 | -13.0% | 1,597 | 1,826 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 3,957 | 2,615 | 51.0% | 0 | 0 | 3,957 | 2,514 | 0 | 0 | 0 | 100 |
| Pacific Noncontiguous | 728 | 667 | 9.1% | 0 | 0 | 728 | 667 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 728 | 667 | 9.1% | 0 | 0 | 728 | 667 | 0 | 0 | 0 | 0 |
| U.S. Total | 823,222 | 841,183 | -2.1% | 592,772 | 609,445 | 217,572 | 218,341 | 151 | 192 | 12,727 | 13,206 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes:

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See Glossary for definitions. Values for are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 7.14. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, 2013 and 2012
(Thousand Barrels)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 3,177 | 560 | 467.0% | 421 | 20 | 2,730 | 365 | 0 | 39 | 25 | 138 |
| Connecticut | 594 | 161 | 268.0% | 0 | 3 | 594 | 158 | 0 | 0 | 0 | 0 |
| Maine | 898 | 151 | 496.0% | 0 | 0 | 873 | 13 | 0 | 0 | 25 | 138 |
| Massachusetts | 1,300 | 238 | 447.0% | 154 | 6 | 1,146 | 193 | 0 | 39 | 0 | 0 |
| New Hampshire | 354 | 9 | NM | 268 | 9 | 86 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 31 | 0 | -- | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 1 | -100.0% | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 2,088 | 1,562 | 34.0% | 451 | 548 | 1,607 | 1,002 | 0 | 0 | 31 | 11 |
| New Jersey | 52 | 124 | -58.0% | 0 | 0 | 52 | 124 | 0 | 0 | 0 | 0 |
| New York | 1,548 | 1,022 | 51.0% | 451 | 548 | 1,077 | 471 | 0 | 0 | 21 | 4 |
| Pennsylvania | 488 | 415 | 18.0% | 0 | 0 | 478 | 407 | 0 | 0 | 10 | 8 |
| East North Central | 1,177 | 1,149 | 2.4% | 929 | 926 | 216 | 174 | 0 | 0 | 31 | 49 |
| Illinois | 129 | 131 | -1.3% | 40 | 36 | 89 | 95 | 0 | 0 | 0 | 0 |
| Indiana | 252 | 230 | 9.7% | 252 | 207 | 0 | 0 | 0 | 0 | 0 | 23 |
| Michigan | 230 | 215 | 7.3% | 216 | 201 | 0 | 0 | 0 | 0 | 14 | 13 |
| Ohio | 466 | 518 | -10.0% | 327 | 432 | 124 | 75 | 0 | 0 | 15 | 11 |
| Wisconsin | 99 | 56 | 76.0% | 94 | 51 | 3 | 4 | 0 | 0 | 2 | 1 |
| West North Central | 500 | 542 | -7.9% | 499 | 541 | 0 | 0 | 0 | 0 | 0 | 1 |
| Iowa | 127 | 187 | -32.0% | 127 | 187 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 103 | 73 | 41.0% | 103 | 73 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 45 | 27 | 68.0% | 45 | 26 | 0 | 0 | 0 | 0 | 0 | 1 |
| Missouri | 101 | 158 | -36.0% | 101 | 158 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 35 | 29 | 20.0% | 35 | 29 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 78 | 63 | 25.0% | 78 | 63 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 10 | 5 | 105.0% | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 2,675 | 3,217 | -17.0% | 1,979 | 1,960 | 391 | 371 | 0 | 5 | 305 | 881 |
| Delaware | 22 | 34 | -35.0% | 0 | 0 | 22 | 34 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 7 | -100.0% | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 |
| Florida | 865 | 948 | -8.8% | 826 | 699 | 8 | 14 | 0 | 0 | 30 | 234 |
| Georgia | 222 | 398 | -44.0% | 145 | 228 | 4 | 8 | 0 | 0 | 73 | 162 |
| Maryland | 193 | 218 | -11.0% | 0 | 0 | 193 | 142 | 0 | 0 | 0 | 77 |
| North Carolina | 394 | 432 | -8.7% | 296 | 274 | 54 | 7 | 0 | 0 | 45 | 150 |
| South Carolina | 246 | 469 | -47.0% | 120 | 246 | 0 | 0 | 0 | 0 | 126 | 223 |
| Virginia | 436 | 455 | -4.1% | 296 | 266 | 109 | 149 | 0 | 5 | 31 | 35 |
| West Virginia | 296 | 257 | 15.0% | 296 | 247 | 0 | 10 | 0 | 0 | 0 | 0 |
| East South Central | 632 | 471 | 34.0% | 629 | 466 | 1 | 1 | 0 | 0 | 2 | 4 |
| Alabama | 131 | 107 | 22.0% | 130 | 102 | 1 | 1 | 0 | 0 | 0 | 4 |
| Kentucky | 195 | 211 | -7.5% | 195 | 211 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 41 | 22 | 88.0% | 39 | 22 | 0 | 0 | 0 | 0 | 2 | 0 |
| Tennessee | 265 | 132 | 102.0% | 265 | 132 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 284 | 293 | -3.3% | 106 | 122 | 177 | 171 | 0 | 0 | 0 | 0 |
| Arkansas | 63 | 74 | -14.0% | 33 | 47 | 30 | 26 | 0 | 0 | 0 | 0 |
| Louisiana | 64 | 50 | 26.0% | 14 | 17 | 50 | 33 | 0 | 0 | 0 | 0 |
| Oklahoma | 13 | 14 | -4.6% | 13 | 14 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 144 | 156 | -7.6% | 46 | 44 | 98 | 111 | 0 | 0 | 0 | 0 |
| Mountain | 368 | 396 | -7.2% | 345 | 347 | 22 | 48 | 0 | 0 | 0 | 2 |
| Arizona | 97 | 77 | 25.0% | 97 | 76 | 0 | 0 | 0 | 0 | 0 | 2 |
| Colorado | 4 | 10 | -57.0% | 4 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 15 | 36 | -59.0% | 0 | 0 | 15 | 36 | 0 | 0 | 0 | 0 |
| Nevada | 34 | 40 | -14.0% | 28 | 30 | 6 | 10 | 0 | 0 | 0 | 0 |
| New Mexico | 96 | 95 | 1.7% | 96 | 95 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 51 | 53 | -3.1% | 50 | 52 | 1 | 1 | 0 | 0 | 0 | 0 |
| Wyoming | 70 | 85 | -18.0% | 70 | 85 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 40 | 96 | -59.0% | 25 | 43 | 14 | 44 | 0 | 0 | 0 | 9 |
| California | 0 | 50 | -100.0% | 0 | 17 | 0 | 30 | 0 | 0 | 0 | 2 |
| Oregon | 6 | 14 | -55.0% | 6 | 14 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 34 | 33 | 0.8% | 19 | 12 | 14 | 14 | 0 | 0 | 0 | 7 |
| Pacific Noncontiguous | 9,474 | 11,176 | -15.0% | 7,429 | 9,278 | 2,045 | 1,898 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 965 | -100.0% | 0 | 965 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 9,474 | 10,211 | -7.2% | 7,429 | 8,313 | 2,045 | 1,898 | 0 | 0 | 0 | 0 |
| U.S. Total | 20,413 | 19,464 | 4.9% | 12,814 | 14,252 | 7,205 | 4,073 | 0 | 43 | 394 | 1,095 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 7.15. Receipts of Petroleum Coke Delivered for Electricity Generation by State, 2013 and 2012
(Thousand Tons)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Connecticut | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Hampshire | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 105 | 106 | -0.7% | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 106 |
| New Jersey | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | 105 | 106 | -0.7% | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 106 |
| East North Central | 860 | 893 | -3.7% | 143 | 248 | 575 | 507 | 0 | 0 | 143 | 138 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 204 | -100.0% | 0 | 204 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 151 | 36 | 320.0% | 122 | 0 | 29 | 36 | 0 | 0 | 0 | 0 |
| Ohio | 546 | 471 | 16.0% | 0 | 0 | 546 | 471 | 0 | 0 | 0 | 0 |
| Wisconsin | 163 | 182 | -10.0% | 20 | 44 | 0 | 0 | 0 | 0 | 143 | 138 |
| West North Central | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iowa | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 1,235 | 741 | 67.0% | 1,103 | 563 | 0 | 0 | 0 | 0 | 132 | 178 |
| Delaware | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 1,103 | 563 | 96.0% | 1,103 | 563 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 132 | 178 | -26.0% | 0 | 0 | 0 | 0 | 0 | 0 | 132 | 178 |
| Maryland | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 535 | 532 | 0.6% | 535 | 532 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 535 | 532 | 0.6% | 535 | 532 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 1,926 | 1,649 | 17.0% | 1,683 | 1,178 | 0 | 35 | 0 | 0 | 243 | 436 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 1,683 | 1,178 | 43.0% | 1,683 | 1,178 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 243 | 471 | -48.0% | 0 | 0 | 0 | 35 | 0 | 0 | 243 | 436 |
| Mountain | 0 | 251 | -100.0% | 0 | 0 | 0 | 251 | 0 | 0 | 0 | 0 |
| Arizona | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 0 | 251 | -100.0% | 0 | 0 | 0 | 251 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 0 | 8 | -100.0% | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| California | 0 | 8 | -100.0% | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 4,660 | 4,180 | 11.0% | 3,463 | 2,521 | 575 | 801 | 0 | 0 | 623 | 858 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

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Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 7.16. Receipts of Natural Gas Delivered for Electricity Generation by State, 2013 and 2012
(Million Cubic Feet)**

| Census Division and State | Electric Power Sector | | | | | | | | | | |
|---------------------------|-----------------------|-----------|-------------------|--------------------|-----------|-----------------------------|-----------|-------------------|-----------|-------------------|-----------|
| | All Sectors | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 364,201 | 440,421 | -17.0% | 1,600 | 3,652 | 348,352 | 419,062 | 0 | 3,636 | 14,249 | 14,072 |
| Connecticut | 104,666 | 112,084 | -6.6% | 0 | 71 | 104,666 | 112,012 | 0 | 0 | 0 | 0 |
| Maine | 35,119 | 42,374 | -17.0% | 0 | 0 | 20,871 | 28,302 | 0 | 0 | 14,249 | 14,072 |
| Massachusetts | 148,736 | 175,314 | -15.0% | 1,245 | 2,789 | 147,491 | 168,890 | 0 | 3,636 | 0 | 0 |
| New Hampshire | 29,644 | 50,408 | -41.0% | 355 | 754 | 29,289 | 49,655 | 0 | 0 | 0 | 0 |
| Rhode Island | 46,035 | 60,203 | -24.0% | 0 | 0 | 46,035 | 60,203 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 37 | -100.0% | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 943,046 | 1,024,559 | -8.0% | 107,551 | 109,942 | 833,669 | 912,518 | 0 | 0 | 1,826 | 2,099 |
| New Jersey | 197,576 | 200,570 | -1.5% | 0 | 0 | 197,576 | 200,570 | 0 | 0 | 0 | 0 |
| New York | 403,332 | 447,049 | -9.8% | 107,551 | 109,942 | 295,077 | 336,374 | 0 | 0 | 704 | 734 |
| Pennsylvania | 342,138 | 376,940 | -9.2% | 0 | 0 | 341,016 | 375,574 | 0 | 0 | 1,122 | 1,366 |
| East North Central | 432,952 | 621,882 | -30.0% | 181,367 | 225,621 | 243,978 | 374,934 | 4,573 | 9,274 | 3,034 | 12,054 |
| Illinois | 40,427 | 78,693 | -49.0% | 4,962 | 12,147 | 35,407 | 61,024 | 0 | 5,479 | 59 | 42 |
| Indiana | 74,303 | 117,031 | -37.0% | 51,670 | 83,545 | 22,632 | 25,956 | 0 | 0 | 0 | 7,530 |
| Michigan | 101,525 | 175,163 | -42.0% | 23,973 | 39,101 | 72,016 | 129,602 | 4,573 | 3,795 | 964 | 2,665 |
| Ohio | 158,008 | 163,870 | -3.6% | 72,165 | 45,366 | 85,178 | 118,387 | 0 | 0 | 666 | 117 |
| Wisconsin | 58,688 | 87,126 | -33.0% | 28,597 | 45,462 | 28,745 | 39,964 | 0 | 0 | 1,346 | 1,699 |
| West North Central | 121,439 | 157,891 | -23.0% | 103,987 | 133,673 | 16,444 | 20,546 | 878 | 1,217 | 131 | 2,455 |
| Iowa | 17,012 | 18,348 | -7.3% | 16,978 | 18,302 | 0 | 0 | 0 | 0 | 33 | 46 |
| Kansas | 15,620 | 26,639 | -41.0% | 15,620 | 26,639 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 47,289 | 56,036 | -16.0% | 37,701 | 44,549 | 9,491 | 9,571 | 0 | 0 | 96 | 1,916 |
| Missouri | 34,013 | 47,085 | -28.0% | 26,182 | 34,892 | 6,953 | 10,976 | 878 | 1,217 | 0 | 0 |
| Nebraska | 3,764 | 8,141 | -54.0% | 3,762 | 7,648 | 0 | 0 | 0 | 0 | 1 | 493 |
| North Dakota | 1 | 1 | 18.0% | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 3,742 | 1,642 | 128.0% | 3,742 | 1,642 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 1,846,076 | 2,020,211 | -8.6% | 1,539,907 | 1,562,634 | 273,806 | 410,674 | 0 | 0 | 32,363 | 46,903 |
| Delaware | 55,626 | 65,059 | -14.0% | 0 | 0 | 39,547 | 52,550 | 0 | 0 | 16,079 | 12,508 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 1,008,097 | 1,122,939 | -10.0% | 957,981 | 1,034,639 | 48,599 | 74,051 | 0 | 0 | 1,518 | 14,249 |
| Georgia | 289,741 | 328,446 | -12.0% | 217,464 | 190,029 | 62,748 | 124,927 | 0 | 0 | 9,529 | 13,491 |
| Maryland | 22,368 | 47,231 | -53.0% | 0 | 0 | 21,759 | 45,325 | 0 | 0 | 609 | 1,906 |
| North Carolina | 201,751 | 150,372 | 34.0% | 179,194 | 126,867 | 21,569 | 23,368 | 0 | 0 | 989 | 138 |
| South Carolina | 88,597 | 109,809 | -19.0% | 78,337 | 97,550 | 9,897 | 11,902 | 0 | 0 | 364 | 357 |
| Virginia | 177,042 | 193,993 | -8.7% | 106,493 | 113,146 | 67,272 | 76,593 | 0 | 0 | 3,277 | 4,254 |
| West Virginia | 2,854 | 2,362 | 21.0% | 439 | 403 | 2,415 | 1,959 | 0 | 0 | 0 | 0 |
| East South Central | 624,917 | 807,339 | -23.0% | 385,062 | 432,604 | 236,708 | 348,415 | 0 | 0 | 3,147 | 26,321 |
| Alabama | 319,071 | 395,377 | -19.0% | 96,430 | 100,108 | 222,641 | 282,985 | 0 | 0 | 0 | 12,284 |
| Kentucky | 14,610 | 31,026 | -53.0% | 12,424 | 27,812 | 2,186 | 3,214 | 0 | 0 | 0 | 0 |
| Mississippi | 250,869 | 317,211 | -21.0% | 238,989 | 241,231 | 11,881 | 62,216 | 0 | 0 | 0 | 13,764 |
| Tennessee | 40,366 | 63,726 | -37.0% | 37,219 | 63,453 | 0 | 0 | 0 | 0 | 3,147 | 272 |
| West South Central | 2,638,753 | 2,896,365 | -8.9% | 775,126 | 812,628 | 1,234,714 | 1,445,605 | 0 | 3,881 | 628,913 | 634,252 |
| Arkansas | 90,794 | 128,030 | -29.0% | 31,144 | 23,235 | 59,650 | 104,796 | 0 | 0 | 0 | 0 |
| Louisiana | 470,733 | 531,471 | -11.0% | 237,312 | 223,287 | 27,891 | 96,745 | 0 | 0 | 205,530 | 211,438 |
| Oklahoma | 246,794 | 313,960 | -21.0% | 188,773 | 229,849 | 57,723 | 83,441 | 0 | 0 | 298 | 671 |
| Texas | 1,830,431 | 1,922,904 | -4.8% | 317,897 | 336,257 | 1,089,449 | 1,160,623 | 0 | 3,881 | 423,085 | 422,143 |
| Mountain | 597,406 | 611,904 | -2.4% | 401,118 | 382,271 | 195,743 | 223,404 | 0 | 0 | 545 | 6,229 |
| Arizona | 219,444 | 227,210 | -3.4% | 90,467 | 111,161 | 128,976 | 115,891 | 0 | 0 | 0 | 159 |
| Colorado | 81,620 | 80,575 | 1.3% | 60,785 | 46,149 | 20,836 | 34,427 | 0 | 0 | 0 | 0 |
| Idaho | 22,741 | 12,738 | 79.0% | 11,262 | 4,395 | 11,479 | 8,343 | 0 | 0 | 0 | 0 |
| Montana | 49 | 19 | 161.0% | 7 | 8 | 42 | 10 | 0 | 0 | 0 | 0 |
| Nevada | 163,416 | 177,682 | -8.0% | 155,915 | 138,470 | 7,500 | 39,212 | 0 | 0 | 0 | 0 |
| New Mexico | 64,705 | 64,840 | -0.2% | 42,839 | 43,108 | 21,866 | 21,732 | 0 | 0 | 0 | 0 |
| Utah | 45,088 | 43,553 | 3.5% | 39,513 | 38,681 | 5,029 | 3,776 | 0 | 0 | 545 | 1,096 |
| Wyoming | 344 | 5,287 | -94.0% | 329 | 301 | 14 | 12 | 0 | 0 | 0 | 4,974 |
| Pacific Contiguous | 909,950 | 917,681 | -0.8% | 330,839 | 307,298 | 534,484 | 541,480 | 0 | 0 | 44,626 | 68,903 |
| California | 739,610 | 793,427 | -6.8% | 230,231 | 250,913 | 464,752 | 477,250 | 0 | 0 | 44,626 | 65,265 |
| Oregon | 100,738 | 81,111 | 24.0% | 36,742 | 28,231 | 63,995 | 52,846 | 0 | 0 | 0 | 34 |
| Washington | 69,603 | 43,143 | 61.0% | 63,866 | 28,155 | 5,737 | 11,384 | 0 | 0 | 0 | 3,604 |
| Pacific Noncontiguous | 24,685 | 33,135 | -26.0% | 24,685 | 33,135 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska | 24,685 | 33,135 | -26.0% | 24,685 | 33,135 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 8,503,424 | 9,531,389 | -11.0% | 3,851,241 | 4,003,457 | 3,917,898 | 4,696,637 | 5,450 | 18,008 | 728,835 | 813,288 |

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Notes:

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 See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
 See Glossary for definitions. Values for are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
 Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 7.17. Average Cost of Coal Delivered for Electricity Generation by State, 2013 and 2012
(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|------------------------------|-----------------------|-----------|----------------------|--------------------|-----------|-----------------------------|-----------|
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | W | 3.59 | W | 4.21 | 4.07 | W | 3.34 |
| Connecticut | W | W | W | -- | -- | W | W |
| Maine | W | W | W | -- | -- | W | W |
| Massachusetts | W | W | W | -- | -- | W | W |
| New Hampshire | 4.21 | 4.07 | 3.4% | 4.21 | 4.07 | -- | -- |
| Rhode Island | -- | -- | -- | -- | -- | -- | -- |
| Vermont | -- | -- | -- | -- | -- | -- | -- |
| Middle Atlantic | 2.54 | 2.50 | 1.6% | -- | -- | 2.54 | 2.50 |
| New Jersey | 3.87 | 4.05 | -4.4% | -- | -- | 3.87 | 4.05 |
| New York | 3.02 | 3.12 | -3.2% | -- | -- | 3.02 | 3.12 |
| Pennsylvania | 2.47 | 2.43 | 1.6% | -- | -- | 2.47 | 2.43 |
| East North Central | 2.28 | 2.37 | -3.8% | 2.42 | 2.53 | 1.95 | 2.05 |
| Illinois | 1.88 | 1.93 | -2.6% | 2.06 | 2.08 | 1.86 | 1.91 |
| Indiana | W | W | W | 2.53 | 2.59 | W | W |
| Michigan | W | W | W | 2.66 | 2.78 | W | W |
| Ohio | W | W | W | 2.25 | 2.41 | W | W |
| Wisconsin | 2.32 | 2.37 | -2.1% | 2.32 | 2.37 | -- | -- |
| West North Central | 1.76 | 1.72 | 2.3% | 1.76 | 1.72 | -- | -- |
| Iowa | 1.67 | 1.48 | 13.0% | 1.67 | 1.48 | -- | -- |
| Kansas | 1.77 | 1.83 | -3.3% | 1.77 | 1.83 | -- | -- |
| Minnesota | 2.00 | 1.98 | 1.0% | 2.00 | 1.98 | -- | -- |
| Missouri | 1.90 | 1.85 | 2.7% | 1.90 | 1.85 | -- | -- |
| Nebraska | 1.42 | 1.55 | -8.4% | 1.42 | 1.55 | -- | -- |
| North Dakota | 1.55 | 1.49 | 4.0% | 1.55 | 1.49 | -- | -- |
| South Dakota | 2.00 | 2.19 | -8.7% | 2.00 | 2.19 | -- | -- |
| South Atlantic | 3.20 | 3.35 | -4.5% | 3.32 | 3.45 | 2.76 | 2.92 |
| Delaware | W | W | W | -- | -- | W | W |
| District of Columbia | -- | -- | -- | -- | -- | -- | -- |
| Florida | W | W | W | 3.41 | 3.49 | W | W |
| Georgia | 3.17 | 3.47 | -8.6% | 3.17 | 3.47 | -- | -- |
| Maryland | 3.43 | 3.62 | -5.2% | -- | -- | 3.43 | 3.62 |
| North Carolina | 3.80 | 3.77 | 0.8% | 3.86 | 3.82 | 2.72 | 2.59 |
| South Carolina | 3.75 | W | W | 3.75 | 3.97 | -- | W |
| Virginia | 3.32 | W | W | 3.26 | 3.61 | 3.98 | W |
| West Virginia | 2.48 | 2.54 | -2.4% | 2.68 | 2.70 | 2.19 | 2.27 |
| East South Central | W | W | W | 2.53 | 2.69 | W | W |
| Alabama | 2.80 | 3.01 | -7.0% | 2.80 | 3.01 | -- | -- |
| Kentucky | 2.36 | 2.42 | -2.5% | 2.36 | 2.42 | -- | -- |
| Mississippi | W | W | W | 3.95 | 4.45 | W | W |
| Tennessee | 2.39 | 2.61 | -8.4% | 2.39 | 2.61 | -- | -- |
| West South Central | 2.09 | 2.00 | 4.5% | 2.24 | 2.12 | 1.90 | 1.87 |
| Arkansas | W | W | W | 2.40 | 2.25 | W | W |
| Louisiana | W | W | W | 2.90 | 2.87 | W | W |
| Oklahoma | W | W | W | 2.02 | 1.97 | W | W |
| Texas | 1.97 | 1.88 | 4.8% | 2.15 | 1.99 | 1.86 | 1.82 |
| Mountain | 1.91 | 1.84 | 3.8% | 1.94 | 1.87 | 1.60 | 1.42 |
| Arizona | 2.07 | 2.07 | 0.0% | 2.07 | 2.07 | -- | -- |
| Colorado | 1.91 | 1.84 | 3.8% | 1.91 | 1.84 | -- | -- |
| Idaho | -- | -- | -- | -- | -- | -- | -- |
| Montana | W | W | W | 1.83 | 1.61 | W | W |
| Nevada | W | W | W | 2.74 | 2.55 | W | W |
| New Mexico | 2.31 | 2.18 | 6.0% | 2.31 | 2.18 | -- | -- |
| Utah | 2.04 | 1.92 | 6.3% | 2.04 | 1.92 | -- | -- |
| Wyoming | W | W | W | 1.52 | 1.45 | W | W |
| Pacific Contiguous | W | W | W | 1.96 | 1.89 | W | W |
| California | W | W | W | -- | -- | W | W |
| Oregon | 1.96 | 1.89 | 3.7% | 1.96 | 1.89 | -- | -- |
| Washington | W | W | W | -- | -- | W | W |
| Pacific Noncontiguous | W | W | W | -- | -- | W | W |
| Alaska | -- | -- | -- | -- | -- | -- | -- |
| Hawaii | W | W | W | -- | -- | W | W |
| U.S. Total | 2.33 | 2.37 | -1.7% | 2.38 | 2.43 | 2.20 | 2.21 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

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Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 7.18. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, 2013 and 2012
(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|------------------------------|-----------------------|-----------|----------------------|--------------------|-----------|-----------------------------|-----------|
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | W | 18.64 | W | 18.60 | 21.43 | W | 18.47 |
| Connecticut | W | W | W | -- | 23.87 | W | W |
| Maine | W | W | W | -- | -- | W | W |
| Massachusetts | 18.16 | 17.17 | 5.8% | 21.91 | 17.45 | 17.68 | 17.16 |
| New Hampshire | W | 23.23 | W | 16.84 | 23.23 | W | -- |
| Rhode Island | W | -- | W | -- | -- | W | -- |
| Vermont | -- | 24.11 | -- | -- | 24.11 | -- | -- |
| Middle Atlantic | 20.47 | W | W | 21.97 | 21.01 | 20.04 | W |
| New Jersey | 21.37 | 19.77 | 8.1% | -- | -- | 21.37 | 19.77 |
| New York | 19.93 | W | W | 21.97 | 21.01 | 19.05 | W |
| Pennsylvania | 22.22 | 21.84 | 1.7% | -- | -- | 22.22 | 21.84 |
| East North Central | 22.90 | 23.10 | -0.9% | 22.84 | 22.98 | 23.11 | 23.73 |
| Illinois | W | W | W | 23.49 | 24.35 | W | W |
| Indiana | 22.96 | 23.19 | -1.0% | 22.96 | 23.19 | -- | -- |
| Michigan | W | W | W | 22.75 | 22.67 | W | W |
| Ohio | 22.93 | 23.06 | -0.6% | 22.88 | 23.03 | 23.09 | 23.22 |
| Wisconsin | W | W | W | 22.39 | 22.00 | W | W |
| West North Central | 22.63 | 22.37 | 1.2% | 22.63 | 22.37 | -- | -- |
| Iowa | 22.54 | 22.91 | -1.6% | 22.54 | 22.91 | -- | -- |
| Kansas | 22.41 | 22.93 | -2.3% | 22.41 | 22.93 | -- | -- |
| Minnesota | 23.13 | 23.76 | -2.7% | 23.13 | 23.76 | -- | -- |
| Missouri | 22.25 | 20.42 | 9.0% | 22.25 | 20.42 | -- | -- |
| Nebraska | 22.39 | 22.96 | -2.5% | 22.39 | 22.96 | -- | -- |
| North Dakota | 23.28 | 23.80 | -2.2% | 23.28 | 23.80 | -- | -- |
| South Dakota | 23.32 | 20.69 | 13.0% | 23.32 | 20.69 | -- | -- |
| South Atlantic | W | W | W | 20.71 | 21.38 | W | W |
| Delaware | W | W | W | -- | -- | W | W |
| District of Columbia | -- | W | W | -- | -- | -- | W |
| Florida | W | W | W | 19.38 | 20.16 | W | W |
| Georgia | W | W | W | 23.39 | 24.24 | W | W |
| Maryland | 21.81 | 22.67 | -3.8% | -- | -- | 21.81 | 22.67 |
| North Carolina | W | W | W | 22.55 | 23.18 | W | W |
| South Carolina | 23.10 | 21.36 | 8.1% | 23.10 | 21.36 | -- | -- |
| Virginia | W | W | W | 17.88 | 18.74 | W | W |
| West Virginia | 23.43 | W | W | 23.43 | 23.34 | -- | W |
| East South Central | W | W | W | 22.49 | 22.62 | W | W |
| Alabama | W | W | W | 22.30 | 22.81 | W | W |
| Kentucky | 22.61 | 22.92 | -1.4% | 22.61 | 22.92 | -- | -- |
| Mississippi | 21.57 | 22.22 | -2.9% | 21.57 | 22.22 | -- | -- |
| Tennessee | 22.64 | 22.08 | 2.5% | 22.64 | 22.08 | -- | -- |
| West South Central | 22.24 | 22.72 | -2.1% | 22.25 | 22.88 | 22.24 | 22.59 |
| Arkansas | W | W | W | 22.06 | 22.99 | W | W |
| Louisiana | W | W | W | 21.99 | 22.37 | W | W |
| Oklahoma | 22.33 | 22.77 | -1.9% | 22.33 | 22.77 | -- | -- |
| Texas | W | W | W | 22.44 | 23.00 | W | W |
| Mountain | 23.80 | 23.32 | 2.1% | 23.85 | 23.86 | 23.12 | 19.01 |
| Arizona | 24.29 | 23.41 | 3.8% | 24.29 | 23.41 | -- | -- |
| Colorado | 23.60 | W | W | 23.60 | 16.94 | -- | W |
| Idaho | -- | -- | -- | -- | -- | -- | -- |
| Montana | W | W | W | -- | -- | W | W |
| Nevada | W | W | W | 24.32 | 25.23 | W | W |
| New Mexico | 24.42 | 25.77 | -5.2% | 24.42 | 25.77 | -- | -- |
| Utah | W | W | W | 22.43 | 23.55 | W | W |
| Wyoming | 23.33 | 22.40 | 4.2% | 23.33 | 22.40 | -- | -- |
| Pacific Contiguous | W | W | W | 23.23 | 24.93 | W | W |
| California | -- | 26.89 | -- | -- | 26.89 | -- | -- |
| Oregon | 22.05 | 22.68 | -2.8% | 22.05 | 22.68 | -- | -- |
| Washington | W | W | W | 23.60 | 24.73 | W | W |
| Pacific Noncontiguous | W | W | W | 20.74 | 22.12 | W | W |
| Alaska | -- | 23.40 | -- | -- | 23.40 | -- | -- |
| Hawaii | W | W | W | 20.74 | 21.99 | W | W |
| U.S. Total | 20.61 | 22.16 | -7.0% | 21.09 | 22.11 | 19.71 | 22.34 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

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See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 7.19. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, 2013 and 2012
(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|------------------------------|-----------------------|-----------|----------------------|--------------------|-----------|-----------------------------|-----------|
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | -- | -- | -- | -- | -- | -- | -- |
| Connecticut | -- | -- | -- | -- | -- | -- | -- |
| Maine | -- | -- | -- | -- | -- | -- | -- |
| Massachusetts | -- | -- | -- | -- | -- | -- | -- |
| New Hampshire | -- | -- | -- | -- | -- | -- | -- |
| Rhode Island | -- | -- | -- | -- | -- | -- | -- |
| Vermont | -- | -- | -- | -- | -- | -- | -- |
| Middle Atlantic | -- | -- | -- | -- | -- | -- | -- |
| New Jersey | -- | -- | -- | -- | -- | -- | -- |
| New York | -- | -- | -- | -- | -- | -- | -- |
| Pennsylvania | -- | -- | -- | -- | -- | -- | -- |
| East North Central | W | W | W | 1.48 | 4.10 | W | W |
| Illinois | -- | -- | -- | -- | -- | -- | -- |
| Indiana | -- | 4.56 | -- | -- | 4.56 | -- | -- |
| Michigan | W | W | W | 1.43 | -- | W | W |
| Ohio | -- | -- | -- | -- | -- | -- | -- |
| Wisconsin | 1.75 | 1.69 | 3.6% | 1.75 | 1.69 | -- | -- |
| West North Central | -- | -- | -- | -- | -- | -- | -- |
| Iowa | -- | -- | -- | -- | -- | -- | -- |
| Kansas | -- | -- | -- | -- | -- | -- | -- |
| Minnesota | -- | -- | -- | -- | -- | -- | -- |
| Missouri | -- | -- | -- | -- | -- | -- | -- |
| Nebraska | -- | -- | -- | -- | -- | -- | -- |
| North Dakota | -- | -- | -- | -- | -- | -- | -- |
| South Dakota | -- | -- | -- | -- | -- | -- | -- |
| South Atlantic | 2.58 | 2.58 | 0.0% | 2.58 | 2.58 | -- | -- |
| Delaware | -- | -- | -- | -- | -- | -- | -- |
| District of Columbia | -- | -- | -- | -- | -- | -- | -- |
| Florida | 2.58 | 2.58 | 0.0% | 2.58 | 2.58 | -- | -- |
| Georgia | -- | -- | -- | -- | -- | -- | -- |
| Maryland | -- | -- | -- | -- | -- | -- | -- |
| North Carolina | -- | -- | -- | -- | -- | -- | -- |
| South Carolina | -- | -- | -- | -- | -- | -- | -- |
| Virginia | -- | -- | -- | -- | -- | -- | -- |
| West Virginia | -- | -- | -- | -- | -- | -- | -- |
| East South Central | 1.81 | 1.83 | -1.1% | 1.81 | 1.83 | -- | -- |
| Alabama | -- | -- | -- | -- | -- | -- | -- |
| Kentucky | 1.81 | 1.83 | -1.1% | 1.81 | 1.83 | -- | -- |
| Mississippi | -- | -- | -- | -- | -- | -- | -- |
| Tennessee | -- | -- | -- | -- | -- | -- | -- |
| West South Central | 1.95 | W | W | 1.95 | 1.99 | -- | W |
| Arkansas | -- | -- | -- | -- | -- | -- | -- |
| Louisiana | 1.95 | 1.99 | -2.0% | 1.95 | 1.99 | -- | -- |
| Oklahoma | -- | -- | -- | -- | -- | -- | -- |
| Texas | -- | W | W | -- | -- | -- | W |
| Mountain | -- | W | W | -- | -- | -- | W |
| Arizona | -- | -- | -- | -- | -- | -- | -- |
| Colorado | -- | -- | -- | -- | -- | -- | -- |
| Idaho | -- | -- | -- | -- | -- | -- | -- |
| Montana | -- | W | W | -- | -- | -- | W |
| Nevada | -- | -- | -- | -- | -- | -- | -- |
| New Mexico | -- | -- | -- | -- | -- | -- | -- |
| Utah | -- | -- | -- | -- | -- | -- | -- |
| Wyoming | -- | -- | -- | -- | -- | -- | -- |
| Pacific Contiguous | -- | W | W | -- | -- | -- | W |
| California | -- | W | W | -- | -- | -- | W |
| Oregon | -- | -- | -- | -- | -- | -- | -- |
| Washington | -- | -- | -- | -- | -- | -- | -- |
| Pacific Noncontiguous | -- | -- | -- | -- | -- | -- | -- |
| Alaska | -- | -- | -- | -- | -- | -- | -- |
| Hawaii | -- | -- | -- | -- | -- | -- | -- |
| U.S. Total | W | 2.13 | W | 2.11 | 2.30 | W | 0.82 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

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Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 7.20. Average Cost of Natural Gas Delivered for Electricity Generation by State, 2013 and 2012
(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|------------------------------|-----------------------|-----------|----------------------|--------------------|-----------|-----------------------------|-----------|
| | Year 2013 | Year 2012 | Percentage Change | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 5.89 | 3.69 | 60.0% | 7.29 | 4.73 | 5.88 | 3.68 |
| Connecticut | 6.06 | 3.88 | 56.0% | -- | 6.45 | 6.06 | 3.87 |
| Maine | W | W | W | -- | -- | W | W |
| Massachusetts | 5.75 | 3.55 | 62.0% | 6.84 | 4.47 | 5.74 | 3.53 |
| New Hampshire | W | W | W | 8.85 | 5.54 | W | W |
| Rhode Island | 5.67 | 3.86 | 47.0% | -- | -- | 5.67 | 3.86 |
| Vermont | -- | 4.06 | -- | -- | 4.06 | -- | -- |
| Middle Atlantic | 4.53 | 3.52 | 29.0% | 5.03 | 3.86 | 4.46 | 3.46 |
| New Jersey | 4.18 | 3.52 | 19.0% | -- | -- | 4.18 | 3.52 |
| New York | 5.11 | 3.85 | 33.0% | 5.03 | 3.86 | 5.15 | 3.84 |
| Pennsylvania | 4.02 | 3.06 | 31.0% | -- | -- | 4.02 | 3.06 |
| East North Central | 4.12 | 3.10 | 33.0% | 4.11 | 3.12 | 4.13 | 3.08 |
| Illinois | W | W | W | 4.82 | 3.25 | W | W |
| Indiana | W | W | W | 4.04 | 3.01 | W | W |
| Michigan | 4.49 | 3.16 | 42.0% | 4.44 | 3.20 | 4.51 | 3.15 |
| Ohio | 3.82 | 2.98 | 28.0% | 3.85 | 2.99 | 3.79 | 2.98 |
| Wisconsin | 4.37 | 3.20 | 37.0% | 4.51 | 3.37 | 4.22 | 2.98 |
| West North Central | 4.54 | W | W | 4.55 | 3.56 | 4.45 | W |
| Iowa | 4.59 | 3.75 | 22.0% | 4.59 | 3.75 | -- | -- |
| Kansas | 4.45 | 3.21 | 39.0% | 4.45 | 3.21 | -- | -- |
| Minnesota | W | W | W | 4.66 | 3.71 | W | W |
| Missouri | W | W | W | 4.45 | 3.46 | W | W |
| Nebraska | 4.82 | 3.84 | 26.0% | 4.82 | 3.84 | -- | -- |
| North Dakota | 5.23 | 5.70 | -8.2% | 5.23 | 5.70 | -- | -- |
| South Dakota | 4.21 | 3.43 | 23.0% | 4.21 | 3.43 | -- | -- |
| South Atlantic | 4.78 | 4.23 | 13.0% | 4.87 | 4.42 | 4.07 | 3.13 |
| Delaware | -- | -- | -- | -- | -- | -- | -- |
| District of Columbia | -- | -- | -- | -- | -- | -- | -- |
| Florida | 5.00 | 4.72 | 5.9% | 5.06 | 4.82 | 3.22 | 2.56 |
| Georgia | 4.38 | 3.35 | 31.0% | 4.34 | 3.38 | 4.52 | 3.29 |
| Maryland | 4.88 | W | W | -- | -- | 4.88 | W |
| North Carolina | W | W | W | 4.99 | 4.36 | W | W |
| South Carolina | W | W | W | 4.58 | 3.62 | W | W |
| Virginia | 4.13 | 3.27 | 26.0% | 4.30 | 3.32 | 3.85 | 3.20 |
| West Virginia | W | 3.24 | W | 3.81 | 3.20 | W | 3.25 |
| East South Central | 4.01 | 2.98 | 35.0% | 3.97 | 2.99 | 4.08 | 2.96 |
| Alabama | W | 3.04 | W | 4.02 | 3.12 | W | 3.00 |
| Kentucky | W | W | W | 5.74 | 3.52 | W | W |
| Mississippi | W | W | W | 3.88 | 2.91 | W | W |
| Tennessee | 3.78 | 2.87 | 32.0% | 3.78 | 2.87 | -- | -- |
| West South Central | 3.89 | 2.95 | 32.0% | 3.98 | 3.01 | 3.83 | 2.90 |
| Arkansas | W | 3.12 | W | 4.83 | 3.86 | W | 2.95 |
| Louisiana | W | 2.94 | W | 3.87 | 2.98 | W | 2.83 |
| Oklahoma | 3.99 | 2.96 | 35.0% | 4.02 | 3.03 | 3.89 | 2.76 |
| Texas | 3.85 | 2.93 | 31.0% | 3.95 | 2.97 | 3.82 | 2.92 |
| Mountain | 4.36 | W | W | 4.45 | 3.52 | 4.07 | W |
| Arizona | 4.48 | 3.43 | 31.0% | 4.93 | 3.69 | 4.03 | 3.09 |
| Colorado | W | W | W | 4.70 | 4.01 | W | W |
| Idaho | W | W | W | 4.35 | 4.20 | W | W |
| Montana | W | W | W | 5.21 | 4.06 | W | W |
| Nevada | W | 3.39 | W | 4.27 | 3.41 | W | 3.28 |
| New Mexico | 4.21 | W | W | 4.21 | 3.35 | -- | W |
| Utah | 3.95 | 2.93 | 35.0% | 3.95 | 2.93 | -- | -- |
| Wyoming | W | W | W | 6.93 | 5.86 | W | W |
| Pacific Contiguous | 4.32 | 3.55 | 22.0% | 4.57 | 3.92 | 4.10 | 3.27 |
| California | 4.40 | 3.59 | 23.0% | 4.75 | 3.97 | 4.17 | 3.32 |
| Oregon | W | W | W | 3.81 | 3.09 | W | W |
| Washington | W | W | W | 4.50 | 4.35 | W | W |
| Pacific Noncontiguous | 4.70 | 4.29 | 9.6% | 4.70 | 4.29 | -- | -- |
| Alaska | 4.70 | 4.29 | 9.6% | 4.70 | 4.29 | -- | -- |
| Hawaii | -- | -- | -- | -- | -- | -- | -- |
| U.S. Total | 4.38 | 3.46 | 27.0% | 4.49 | 3.74 | 4.25 | 3.17 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

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Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 7.21. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, 2013

| Census Division and State | Bituminous | | | Subbituminous | | | Lignite | | |
|---------------------------|--------------------------|----------------------------------|-------------------------------|--------------------------|----------------------------------|-------------------------------|--------------------------|----------------------------------|-------------------------------|
| | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight |
| New England | 2,597 | 1.13 | 9.1 | 320 | 0.09 | 2.0 | 0 | -- | -- |
| Connecticut | 0 | -- | -- | 320 | 0.09 | 2.0 | 0 | -- | -- |
| Maine | 66 | 0.95 | 7.9 | 0 | -- | -- | 0 | -- | -- |
| Massachusetts | 1,805 | 0.74 | 9.8 | 0 | -- | -- | 0 | -- | -- |
| New Hampshire | 726 | 2.04 | 7.7 | 0 | -- | -- | 0 | -- | -- |
| Rhode Island | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Vermont | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Middle Atlantic | 35,064 | 2.94 | 10.8 | 780 | 0.25 | 5.2 | 0 | -- | -- |
| New Jersey | 1,105 | 1.60 | 8.9 | 0 | -- | -- | 0 | -- | -- |
| New York | 1,687 | 2.52 | 9.6 | 780 | 0.25 | 5.2 | 0 | -- | -- |
| Pennsylvania | 32,273 | 3.01 | 10.9 | 0 | -- | -- | 0 | -- | -- |
| East North Central | 83,996 | 2.97 | 9.9 | 101,717 | 0.25 | 4.9 | 0 | -- | -- |
| Illinois | 9,525 | 3.49 | 18.6 | 50,011 | 0.22 | 4.7 | 0 | -- | -- |
| Indiana | 33,254 | 2.78 | 9.0 | 3,133 | 0.29 | 5.1 | 0 | -- | -- |
| Michigan | 2,925 | 1.57 | 8.7 | 26,424 | 0.29 | 4.9 | 0 | -- | -- |
| Ohio | 36,425 | 3.20 | 9.2 | 1,414 | 0.33 | 5.5 | 0 | -- | -- |
| Wisconsin | 1,867 | 1.76 | 7.1 | 20,735 | 0.26 | 5.0 | 0 | -- | -- |
| West North Central | 1,087 | 3.16 | 9.6 | 110,270 | 0.28 | 5.0 | 21,971 | 0.79 | 9.9 |
| Iowa | 389 | 3.48 | 8.0 | 19,897 | 0.28 | 5.0 | 0 | -- | -- |
| Kansas | 224 | 3.22 | 14.0 | 18,200 | 0.33 | 5.0 | 0 | -- | -- |
| Minnesota | 3 | 0.86 | 8.9 | 13,263 | 0.35 | 5.6 | 0 | -- | -- |
| Missouri | 470 | 2.89 | 8.8 | 40,667 | 0.23 | 4.8 | 0 | -- | -- |
| Nebraska | 0 | -- | -- | 15,761 | 0.27 | 5.2 | 0 | -- | -- |
| North Dakota | 0 | -- | -- | 693 | 0.34 | 4.4 | 21,971 | 0.79 | 9.9 |
| South Dakota | 0 | -- | -- | 1,788 | 0.44 | 6.4 | 0 | -- | -- |
| South Atlantic | 96,665 | 2.03 | 10.3 | 12,449 | 0.28 | 4.7 | 0 | -- | -- |
| Delaware | 614 | 2.19 | 7.9 | 0 | -- | -- | 0 | -- | -- |
| District of Columbia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Florida | 19,742 | 2.19 | 9.1 | 12 | 0.26 | 4.8 | 0 | -- | -- |
| Georgia | 6,932 | 1.29 | 9.5 | 12,083 | 0.28 | 4.7 | 0 | -- | -- |
| Maryland | 6,410 | 1.81 | 10.2 | 353 | 0.20 | 4.6 | 0 | -- | -- |
| North Carolina | 16,296 | 1.55 | 9.9 | 0 | -- | -- | 0 | -- | -- |
| South Carolina | 9,130 | 1.60 | 8.7 | 0 | -- | -- | 0 | -- | -- |
| Virginia | 7,889 | 1.08 | 11.6 | 0 | -- | -- | 0 | -- | -- |
| West Virginia | 29,651 | 2.81 | 11.8 | 0 | -- | -- | 0 | -- | -- |
| East South Central | 59,213 | 2.50 | 9.8 | 23,324 | 0.26 | 5.0 | 3,169 | 0.46 | 14.2 |
| Alabama | 10,670 | 1.68 | 10.3 | 11,912 | 0.25 | 5.0 | 0 | -- | -- |
| Kentucky | 36,723 | 2.91 | 9.9 | 2,438 | 0.30 | 5.3 | 0 | -- | -- |
| Mississippi | 2,572 | 1.93 | 9.5 | 42 | 0.19 | 4.7 | 3,169 | 0.46 | 14.2 |
| Tennessee | 9,249 | 2.00 | 8.6 | 8,932 | 0.27 | 5.0 | 0 | -- | -- |
| West South Central | 1,043 | 2.29 | 16.5 | 100,219 | 0.28 | 5.1 | 45,758 | 1.01 | 16.4 |
| Arkansas | 0 | -- | -- | 17,641 | 0.26 | 5.2 | 0 | -- | -- |
| Louisiana | 541 | 3.22 | 8.3 | 10,733 | 0.29 | 5.1 | 2,715 | 0.78 | 16.3 |
| Oklahoma | 502 | 1.16 | 26.3 | 16,970 | 0.24 | 4.9 | 0 | -- | -- |
| Texas | 0 | -- | -- | 54,874 | 0.29 | 5.2 | 43,043 | 1.02 | 16.5 |
| Mountain | 31,635 | 0.62 | 13.8 | 74,650 | 0.54 | 9.4 | 292 | 0.52 | 9.2 |
| Arizona | 7,903 | 0.60 | 10.7 | 13,686 | 0.71 | 10.6 | 0 | -- | -- |
| Colorado | 3,259 | 0.50 | 10.5 | 14,797 | 0.31 | 5.7 | 0 | -- | -- |
| Idaho | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Montana | 0 | -- | -- | 8,970 | 0.65 | 8.9 | 292 | 0.52 | 9.2 |
| Nevada | 482 | 0.34 | 12.3 | 1,787 | 0.36 | 7.2 | 0 | -- | -- |
| New Mexico | 6,116 | 0.81 | 25.9 | 8,037 | 0.73 | 22.4 | 0 | -- | -- |
| Utah | 13,875 | 0.61 | 11.8 | 738 | 1.12 | 9.0 | 0 | -- | -- |
| Wyoming | 0 | -- | -- | 26,637 | 0.47 | 7.3 | 0 | -- | -- |
| Pacific Contiguous | 793 | 0.61 | 10.4 | 5,554 | 0.38 | 7.7 | 0 | -- | -- |
| California | 793 | 0.61 | 10.4 | 0 | -- | -- | 0 | -- | -- |
| Oregon | 0 | -- | -- | 1,597 | 0.34 | 4.7 | 0 | -- | -- |
| Washington | 0 | -- | -- | 3,957 | 0.40 | 8.9 | 0 | -- | -- |
| Pacific Noncontiguous | 728 | 1.31 | 4.6 | 0 | -- | -- | 0 | -- | -- |
| Alaska | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Hawaii | 728 | 1.31 | 4.6 | 0 | -- | -- | 0 | -- | -- |
| U.S. Total | 312,821 | 2.33 | 10.5 | 429,283 | 0.32 | 5.8 | 71,191 | 0.92 | 14.3 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
 NM = Not meaningful due to large relative standard error or excessive percentage change.
 W = Withheld to avoid disclosure of individual company data.

Notes:

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Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 7.22. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilities by State, 2013

| Census Division and State | Bituminous | | | Subbituminous | | | Lignite | | |
|---------------------------|--------------------------|----------------------------------|-------------------------------|--------------------------|----------------------------------|-------------------------------|--------------------------|----------------------------------|-------------------------------|
| | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight |
| New England | 726 | 2.04 | 7.7 | 0 | -- | -- | 0 | -- | -- |
| Connecticut | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Maine | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Massachusetts | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New Hampshire | 726 | 2.04 | 7.7 | 0 | -- | -- | 0 | -- | -- |
| Rhode Island | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Vermont | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Middle Atlantic | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New Jersey | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New York | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Pennsylvania | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| East North Central | 68,367 | 2.93 | 9.1 | 53,763 | 0.28 | 5.0 | 0 | -- | -- |
| Illinois | 2,619 | 3.40 | 11.2 | 3,772 | 0.22 | 4.8 | 0 | -- | -- |
| Indiana | 30,669 | 2.74 | 8.9 | 3,133 | 0.29 | 5.1 | 0 | -- | -- |
| Michigan | 2,642 | 1.61 | 8.7 | 26,367 | 0.29 | 4.9 | 0 | -- | -- |
| Ohio | 30,933 | 3.26 | 9.2 | 0 | -- | -- | 0 | -- | -- |
| Wisconsin | 1,503 | 1.65 | 7.0 | 20,491 | 0.26 | 5.0 | 0 | -- | -- |
| West North Central | 607 | 2.90 | 10.6 | 107,221 | 0.28 | 5.1 | 21,971 | 0.79 | 9.9 |
| Iowa | 3 | 1.15 | 9.6 | 17,976 | 0.28 | 5.0 | 0 | -- | -- |
| Kansas | 224 | 3.22 | 14.0 | 18,200 | 0.33 | 5.0 | 0 | -- | -- |
| Minnesota | 3 | 0.86 | 8.9 | 12,905 | 0.35 | 5.6 | 0 | -- | -- |
| Missouri | 377 | 2.75 | 8.7 | 40,667 | 0.23 | 4.8 | 0 | -- | -- |
| Nebraska | 0 | -- | -- | 14,991 | 0.28 | 5.2 | 0 | -- | -- |
| North Dakota | 0 | -- | -- | 693 | 0.34 | 4.4 | 21,971 | 0.79 | 9.9 |
| South Dakota | 0 | -- | -- | 1,788 | 0.44 | 6.4 | 0 | -- | -- |
| South Atlantic | 73,759 | 1.89 | 10.1 | 12,095 | 0.28 | 4.7 | 0 | -- | -- |
| Delaware | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| District of Columbia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Florida | 18,754 | 2.26 | 9.1 | 12 | 0.26 | 4.8 | 0 | -- | -- |
| Georgia | 6,568 | 1.29 | 9.4 | 12,083 | 0.28 | 4.7 | 0 | -- | -- |
| Maryland | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| North Carolina | 15,038 | 1.59 | 10.0 | 0 | -- | -- | 0 | -- | -- |
| South Carolina | 8,981 | 1.61 | 8.7 | 0 | -- | -- | 0 | -- | -- |
| Virginia | 6,676 | 1.04 | 12.1 | 0 | -- | -- | 0 | -- | -- |
| West Virginia | 17,742 | 2.46 | 11.4 | 0 | -- | -- | 0 | -- | -- |
| East South Central | 57,108 | 2.54 | 9.8 | 23,324 | 0.26 | 5.0 | 0 | -- | -- |
| Alabama | 10,670 | 1.68 | 10.3 | 11,912 | 0.25 | 5.0 | 0 | -- | -- |
| Kentucky | 36,723 | 2.91 | 9.9 | 2,438 | 0.30 | 5.3 | 0 | -- | -- |
| Mississippi | 2,056 | 1.67 | 9.8 | 42 | 0.19 | 4.7 | 0 | -- | -- |
| Tennessee | 7,659 | 2.25 | 8.7 | 8,932 | 0.27 | 5.0 | 0 | -- | -- |
| West South Central | 541 | 3.22 | 8.3 | 63,914 | 0.26 | 5.0 | 9,954 | 1.20 | 18.5 |
| Arkansas | 0 | -- | -- | 15,558 | 0.26 | 5.2 | 0 | -- | -- |
| Louisiana | 541 | 3.22 | 8.3 | 3,838 | 0.29 | 5.3 | 2,715 | 0.78 | 16.3 |
| Oklahoma | 0 | -- | -- | 15,889 | 0.25 | 4.9 | 0 | -- | -- |
| Texas | 0 | -- | -- | 28,629 | 0.26 | 5.0 | 7,239 | 1.38 | 19.4 |
| Mountain | 31,405 | 0.63 | 13.8 | 64,378 | 0.52 | 9.5 | 292 | 0.52 | 9.2 |
| Arizona | 7,903 | 0.60 | 10.7 | 13,686 | 0.71 | 10.6 | 0 | -- | -- |
| Colorado | 3,259 | 0.50 | 10.5 | 14,797 | 0.31 | 5.7 | 0 | -- | -- |
| Idaho | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Montana | 0 | -- | -- | 0 | -- | -- | 292 | 0.52 | 9.2 |
| Nevada | 482 | 0.34 | 12.3 | 1,000 | 0.40 | 8.6 | 0 | -- | -- |
| New Mexico | 6,116 | 0.81 | 25.9 | 8,037 | 0.73 | 22.4 | 0 | -- | -- |
| Utah | 13,645 | 0.61 | 11.9 | 738 | 1.12 | 9.0 | 0 | -- | -- |
| Wyoming | 0 | -- | -- | 26,121 | 0.47 | 7.3 | 0 | -- | -- |
| Pacific Contiguous | 0 | -- | -- | 1,597 | 0.34 | 4.7 | 0 | -- | -- |
| California | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Oregon | 0 | -- | -- | 1,597 | 0.34 | 4.7 | 0 | -- | -- |
| Washington | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Pacific Noncontiguous | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Alaska | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Hawaii | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| U.S. Total | 232,512 | 2.21 | 10.2 | 326,291 | 0.32 | 5.9 | 32,218 | 0.91 | 12.5 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
 NM = Not meaningful due to large relative standard error or excessive percentage change.
 W = Withheld to avoid disclosure of individual company data.

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Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 7.23. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, 2013

| Census Division and State | Bituminous | | | Subbituminous | | | Lignite | | |
|---------------------------|--------------------------|----------------------------------|-------------------------------|--------------------------|----------------------------------|-------------------------------|--------------------------|----------------------------------|-------------------------------|
| | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight |
| New England | 1,843 | 0.74 | 9.8 | 320 | 0.09 | 2.0 | 0 | -- | -- |
| Connecticut | 0 | -- | -- | 320 | 0.09 | 2.0 | 0 | -- | -- |
| Maine | 38 | 0.98 | 8.5 | 0 | -- | -- | 0 | -- | -- |
| Massachusetts | 1,805 | 0.74 | 9.8 | 0 | -- | -- | 0 | -- | -- |
| New Hampshire | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Rhode Island | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Vermont | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Middle Atlantic | 34,364 | 2.97 | 10.8 | 780 | 0.25 | 5.2 | 0 | -- | -- |
| New Jersey | 1,105 | 1.60 | 8.9 | 0 | -- | -- | 0 | -- | -- |
| New York | 1,347 | 2.84 | 9.6 | 780 | 0.25 | 5.2 | 0 | -- | -- |
| Pennsylvania | 31,913 | 3.02 | 11.0 | 0 | -- | -- | 0 | -- | -- |
| East North Central | 13,207 | 3.15 | 15.2 | 47,130 | 0.22 | 4.7 | 0 | -- | -- |
| Illinois | 5,266 | 3.62 | 27.0 | 45,658 | 0.21 | 4.7 | 0 | -- | -- |
| Indiana | 2,585 | 3.24 | 10.8 | 0 | -- | -- | 0 | -- | -- |
| Michigan | 115 | 1.14 | 8.6 | 57 | 0.22 | 4.7 | 0 | -- | -- |
| Ohio | 5,242 | 2.84 | 9.2 | 1,414 | 0.33 | 5.5 | 0 | -- | -- |
| Wisconsin | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| West North Central | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Iowa | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Kansas | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Minnesota | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Missouri | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Nebraska | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| North Dakota | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| South Dakota | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| South Atlantic | 20,671 | 2.59 | 11.1 | 353 | 0.20 | 4.6 | 0 | -- | -- |
| Delaware | 614 | 2.19 | 7.9 | 0 | -- | -- | 0 | -- | -- |
| District of Columbia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Florida | 756 | 1.00 | 11.2 | 0 | -- | -- | 0 | -- | -- |
| Georgia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Maryland | 6,073 | 1.79 | 9.7 | 353 | 0.20 | 4.6 | 0 | -- | -- |
| North Carolina | 877 | 1.07 | 8.5 | 0 | -- | -- | 0 | -- | -- |
| South Carolina | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Virginia | 760 | 0.94 | 9.1 | 0 | -- | -- | 0 | -- | -- |
| West Virginia | 11,591 | 3.38 | 12.4 | 0 | -- | -- | 0 | -- | -- |
| East South Central | 516 | 2.95 | 8.4 | 0 | -- | -- | 3,169 | 0.46 | 14.2 |
| Alabama | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Kentucky | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Mississippi | 516 | 2.95 | 8.4 | 0 | -- | -- | 3,169 | 0.46 | 14.2 |
| Tennessee | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| West South Central | 502 | 1.16 | 26.3 | 35,823 | 0.31 | 5.2 | 35,804 | 0.96 | 15.9 |
| Arkansas | 0 | -- | -- | 2,083 | 0.28 | 5.2 | 0 | -- | -- |
| Louisiana | 0 | -- | -- | 6,896 | 0.30 | 5.0 | 0 | -- | -- |
| Oklahoma | 502 | 1.16 | 26.3 | 599 | 0.23 | 4.6 | 0 | -- | -- |
| Texas | 0 | -- | -- | 26,245 | 0.32 | 5.3 | 35,804 | 0.96 | 15.9 |
| Mountain | 0 | -- | -- | 10,272 | 0.61 | 8.4 | 0 | -- | -- |
| Arizona | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Colorado | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Idaho | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Montana | 0 | -- | -- | 8,970 | 0.65 | 8.9 | 0 | -- | -- |
| Nevada | 0 | -- | -- | 786 | 0.31 | 5.2 | 0 | -- | -- |
| New Mexico | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Utah | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Wyoming | 0 | -- | -- | 516 | 0.42 | 6.1 | 0 | -- | -- |
| Pacific Contiguous | 148 | 1.27 | 11.3 | 3,957 | 0.40 | 8.9 | 0 | -- | -- |
| California | 148 | 1.27 | 11.3 | 0 | -- | -- | 0 | -- | -- |
| Oregon | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Washington | 0 | -- | -- | 3,957 | 0.40 | 8.9 | 0 | -- | -- |
| Pacific Noncontiguous | 728 | 1.31 | 4.6 | 0 | -- | -- | 0 | -- | -- |
| Alaska | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Hawaii | 728 | 1.31 | 4.6 | 0 | -- | -- | 0 | -- | -- |
| U.S. Total | 71,979 | 2.80 | 11.6 | 98,636 | 0.30 | 5.4 | 38,973 | 0.93 | 15.8 |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
 NM = Not meaningful due to large relative standard error or excessive percentage change.
 W = Withheld to avoid disclosure of individual company data.

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Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 7.24. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, 2013

| Census Division and State | Bituminous | | | Subbituminous | | | Lignite | | |
|---------------------------|--------------------------|----------------------------------|-------------------------------|--------------------------|----------------------------------|-------------------------------|--------------------------|----------------------------------|-------------------------------|
| | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight |
| New England | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Connecticut | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Maine | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Massachusetts | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New Hampshire | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Rhode Island | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Vermont | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Middle Atlantic | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New Jersey | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New York | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Pennsylvania | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| East North Central | 58 | 2.45 | 9.3 | 0 | -- | -- | 0 | -- | -- |
| Illinois | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Indiana | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Michigan | 58 | 2.45 | 9.3 | 0 | -- | -- | 0 | -- | -- |
| Ohio | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Wisconsin | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| West North Central | 94 | 3.43 | 9.3 | 0 | -- | -- | 0 | -- | -- |
| Iowa | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Kansas | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Minnesota | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Missouri | 94 | 3.43 | 9.3 | 0 | -- | -- | 0 | -- | -- |
| Nebraska | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| North Dakota | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| South Dakota | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| South Atlantic | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Delaware | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| District of Columbia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Florida | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Georgia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Maryland | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| North Carolina | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| South Carolina | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Virginia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| West Virginia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| East South Central | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Alabama | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Kentucky | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Mississippi | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Tennessee | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| West South Central | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Arkansas | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Louisiana | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Oklahoma | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Texas | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Mountain | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Arizona | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Colorado | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Idaho | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Montana | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Nevada | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New Mexico | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Utah | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Wyoming | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Pacific Contiguous | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| California | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Oregon | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Washington | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Pacific Noncontiguous | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Alaska | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Hawaii | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| U.S. Total | 151 | 3.05 | 9.3 | 0 | -- | -- | 0 | -- | -- |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
 NM = Not meaningful due to large relative standard error or excessive percentage change.
 W = Withheld to avoid disclosure of individual company data.

Notes:

Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process. See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes. See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 7.25. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, 2013

| Census Division and State | Bituminous | | | Subbituminous | | | Lignite | | |
|---------------------------|--------------------------|----------------------------------|-------------------------------|--------------------------|----------------------------------|-------------------------------|--------------------------|----------------------------------|-------------------------------|
| | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight | Receipts (Thousand Tons) | Average Sulfur Percent by Weight | Average Ash Percent by Weight |
| New England | 28 | 0.91 | 7.0 | 0 | -- | -- | 0 | -- | -- |
| Connecticut | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Maine | 28 | 0.91 | 7.0 | 0 | -- | -- | 0 | -- | -- |
| Massachusetts | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New Hampshire | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Rhode Island | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Vermont | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Middle Atlantic | 700 | 1.85 | 9.3 | 0 | -- | -- | 0 | -- | -- |
| New Jersey | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New York | 341 | 1.32 | 9.6 | 0 | -- | -- | 0 | -- | -- |
| Pennsylvania | 360 | 2.34 | 9.0 | 0 | -- | -- | 0 | -- | -- |
| East North Central | 2,364 | 3.00 | 8.6 | 825 | 0.49 | 5.8 | 0 | -- | -- |
| Illinois | 1,641 | 3.28 | 8.7 | 581 | 0.58 | 6.1 | 0 | -- | -- |
| Indiana | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Michigan | 110 | 0.52 | 7.8 | 0 | -- | -- | 0 | -- | -- |
| Ohio | 250 | 3.62 | 10.9 | 0 | -- | -- | 0 | -- | -- |
| Wisconsin | 364 | 2.20 | 7.3 | 244 | 0.27 | 5.1 | 0 | -- | -- |
| West North Central | 386 | 3.50 | 8.0 | 3,049 | 0.21 | 4.5 | 0 | -- | -- |
| Iowa | 386 | 3.50 | 8.0 | 1,922 | 0.21 | 4.5 | 0 | -- | -- |
| Kansas | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Minnesota | 0 | -- | -- | 358 | 0.22 | 5.3 | 0 | -- | -- |
| Missouri | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Nebraska | 0 | -- | -- | 769 | 0.21 | 4.4 | 0 | -- | -- |
| North Dakota | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| South Dakota | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| South Atlantic | 2,235 | 1.33 | 10.6 | 0 | -- | -- | 0 | -- | -- |
| Delaware | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| District of Columbia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Florida | 232 | 0.76 | 6.0 | 0 | -- | -- | 0 | -- | -- |
| Georgia | 364 | 1.25 | 10.2 | 0 | -- | -- | 0 | -- | -- |
| Maryland | 337 | 2.11 | 21.1 | 0 | -- | -- | 0 | -- | -- |
| North Carolina | 381 | 0.92 | 7.5 | 0 | -- | -- | 0 | -- | -- |
| South Carolina | 149 | 0.80 | 8.3 | 0 | -- | -- | 0 | -- | -- |
| Virginia | 454 | 1.87 | 8.8 | 0 | -- | -- | 0 | -- | -- |
| West Virginia | 318 | 1.07 | 12.2 | 0 | -- | -- | 0 | -- | -- |
| East South Central | 1,589 | 0.89 | 8.1 | 0 | -- | -- | 0 | -- | -- |
| Alabama | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Kentucky | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Mississippi | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Tennessee | 1,589 | 0.89 | 8.1 | 0 | -- | -- | 0 | -- | -- |
| West South Central | 0 | -- | -- | 482 | 0.20 | 4.6 | 0 | -- | -- |
| Arkansas | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Louisiana | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Oklahoma | 0 | -- | -- | 482 | 0.20 | 4.6 | 0 | -- | -- |
| Texas | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Mountain | 230 | 0.35 | 9.4 | 0 | -- | -- | 0 | -- | -- |
| Arizona | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Colorado | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Idaho | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Montana | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Nevada | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New Mexico | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Utah | 230 | 0.35 | 9.4 | 0 | -- | -- | 0 | -- | -- |
| Wyoming | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Pacific Contiguous | 646 | 0.45 | 10.2 | 0 | -- | -- | 0 | -- | -- |
| California | 646 | 0.45 | 10.2 | 0 | -- | -- | 0 | -- | -- |
| Oregon | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Washington | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Pacific Noncontiguous | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Alaska | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Hawaii | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| U.S. Total | 8,178 | 1.73 | 9.2 | 4,356 | 0.26 | 4.8 | 0 | -- | -- |

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
 NM = Not meaningful due to large relative standard error or excessive percentage change.
 W = Withheld to avoid disclosure of individual company data.

Notes:

Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process. See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes. See Glossary for definitions. Values are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Chapter 8

Electric Power System Characteristics and Performance

**Table 8.1. Average Operating Heat Rate for Selected Energy Sources,
2003 through 2013 (Btu per Kilowatt-hour)**

| Year | Coal | Petroleum | Natural Gas | Nuclear |
|------|--------|-----------|-------------|---------|
| 2003 | 10,297 | 10,610 | 9,207 | 10,422 |
| 2004 | 10,331 | 10,571 | 8,647 | 10,428 |
| 2005 | 10,373 | 10,631 | 8,551 | 10,436 |
| 2006 | 10,351 | 10,809 | 8,471 | 10,435 |
| 2007 | 10,375 | 10,794 | 8,403 | 10,489 |
| 2008 | 10,378 | 11,015 | 8,305 | 10,452 |
| 2009 | 10,414 | 10,923 | 8,160 | 10,459 |
| 2010 | 10,415 | 10,984 | 8,185 | 10,452 |
| 2011 | 10,444 | 10,829 | 8,152 | 10,464 |
| 2012 | 10,498 | 10,991 | 8,039 | 10,479 |
| 2013 | 10,459 | 10,713 | 7,948 | 10,449 |

Coal includes anthracite, bituminous, subbituminous and lignite coal. Waste coal and synthetic coal are included starting in 2002.

Petroleum includes distillate fuel oil (all diesel and No. 1 and No. 2 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.

Notes:

Included in the calculation for coal, petroleum, and natural gas average operating heat rate are electric power plants in the utility and independent power producer sectors.

Combined heat and power plants, and all plants in the commercial and industrial sectors are excluded from the calculations.

The nuclear average heat rate is the weighted average tested heat rate for nuclear units as reported on the Form EIA-860.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report," and predecessor form(s) including U.S. Energy Information Administration, Form EIA-906, "Power Plant Report;" and Form EIA-920, "Combined Heat and Power Plant Report;" Form EIA-860, "Annual Electric Generator Report."

**Table 8.2. Average Tested Heat Rates by Prime Mover and Energy Source, 2007 - 2013
(Btu per Kilowatthour)**

| Prime Mover | Coal | Petroleum | Natural Gas | Nuclear |
|---------------------|--------|-----------|-------------|---------|
| 2007 | | | | |
| Steam Generator | 10,158 | 10,398 | 10,440 | 10,489 |
| Gas Turbine | -- | 13,217 | 11,632 | -- |
| Internal Combustion | -- | 10,447 | 10,175 | -- |
| Combined Cycle | W | 10,970 | 7,577 | -- |
| 2008 | | | | |
| Steam Generator | 10,138 | 10,356 | 10,377 | 10,452 |
| Gas Turbine | -- | 13,311 | 11,576 | -- |
| Internal Combustion | -- | 10,427 | 9,975 | -- |
| Combined Cycle | W | 10,985 | 7,642 | -- |
| 2009 | | | | |
| Steam Generator | 10,150 | 10,349 | 10,427 | 10,459 |
| Gas Turbine | -- | 13,326 | 11,560 | -- |
| Internal Combustion | -- | 10,428 | 9,958 | -- |
| Combined Cycle | W | 10,715 | 7,605 | -- |
| 2010 | | | | |
| Steam Generator | 10,142 | 10,249 | 10,416 | 10,452 |
| Gas Turbine | -- | 13,386 | 11,590 | -- |
| Internal Combustion | -- | 10,429 | 9,917 | -- |
| Combined Cycle | W | 10,474 | 7,619 | -- |
| 2011 | | | | |
| Steam Generator | 10,128 | 10,414 | 10,414 | 10,464 |
| Gas Turbine | -- | 13,637 | 11,569 | -- |
| Internal Combustion | -- | 10,428 | 9,923 | -- |
| Combined Cycle | W | 10,650 | 7,603 | -- |
| 2012 | | | | |
| Steam Generator | 10,107 | 10,359 | 10,385 | 10,479 |
| Gas Turbine | -- | 13,622 | 11,499 | -- |
| Internal Combustion | -- | 10,416 | 9,991 | -- |
| Combined Cycle | W | 10,195 | 7,615 | -- |
| 2013 | | | | |
| Steam Generator | 10,089 | 10,334 | 10,354 | 10,449 |
| Gas Turbine | -- | 13,555 | 11,371 | -- |
| Internal Combustion | -- | 10,401 | 9,573 | -- |
| Combined Cycle | W | 9,937 | 7,667 | -- |

Notes: W = Withheld to avoid disclosure of individual company data.

Heat rate is reported at full load conditions for electric utilities and independent power producers.
The average heat rates above are weighted by Net Summer Capacity.
Coal Combined Cycle represents integrated gasification units.

Source: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report.'

Table 8.6.A. Noncoincident Peak Load by North American Electric Reliability Corporation Assessment Area, 2003 - 2013, Actual

| Summer Peak Load (Megawatts) | | | | | | | | | | | | | | | | |
|------------------------------|-------------------------|--------|---------------------------|--------|--------|--------|-------|---------|--------|---------|-----|---------|---------|--------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | ECAR | MAAC | MAIN | MAPP | MISO | MRO | PJM | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
| 2003 | 40,475 | 55,018 | 431,349 | 98,487 | 53,566 | 56,988 | -- | -- | 28,831 | -- | -- | 153,110 | 40,367 | 59,996 | 122,537 | 709,375 |
| 2004 | 42,383 | 52,549 | 427,860 | 95,300 | 52,049 | 53,439 | -- | -- | 29,351 | -- | -- | 157,615 | 40,106 | 58,531 | 123,136 | 704,459 |
| 2005 | 46,396 | 58,960 | 462,550 | -- | -- | -- | -- | -- | 39,918 | -- | -- | 190,200 | 190,705 | 60,210 | 130,760 | 758,876 |
| 2006 | 45,751 | 63,241 | 476,048 | -- | -- | -- | -- | -- | 42,194 | -- | -- | 191,920 | 199,052 | 62,339 | 142,096 | 789,475 |
| 2007 | 46,676 | 58,314 | 475,660 | -- | -- | -- | -- | -- | 41,684 | -- | -- | 181,700 | 209,109 | 62,188 | 139,389 | 782,227 |
| 2008 | 44,836 | 58,543 | 452,087 | -- | -- | -- | -- | -- | 39,677 | -- | -- | 169,155 | 199,779 | 62,174 | 134,829 | 752,470 |
| 2009 | 46,550 | 55,944 | 431,701 | -- | -- | -- | -- | -- | 37,963 | -- | -- | 161,241 | 191,032 | 63,518 | 128,245 | 725,958 |
| 2010 | 45,722 | 60,554 | 466,543 | -- | -- | -- | 4,598 | 108,346 | -- | 136,465 | -- | 164,058 | 53,077 | 65,776 | 129,352 | 767,948 |
| 2011 | 44,968 | 63,390 | 486,131 | -- | -- | -- | 4,726 | 102,819 | -- | 158,043 | -- | 164,726 | 55,817 | 68,416 | 119,565 | 782,469 |
| 2012 | 44,338 | 58,319 | 468,092 | -- | -- | -- | 5,051 | 96,769 | -- | 154,339 | -- | 161,687 | 50,246 | 66,548 | 130,465 | 767,762 |
| 2013 | 44,653 | 61,335 | 452,846 | -- | -- | -- | 4,755 | 121,124 | -- | 157,509 | -- | 121,810 | 47,647 | 67,245 | 132,875 | 758,953 |

| Winter Peak Load (Megawatts) | | | | | | | | | | | | | | | | |
|------------------------------|-------------------------|--------|---------------------------|--------|--------|--------|-------|---------|--------|---------|-----|---------|---------|--------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | ECAR | MAAC | MAIN | MAPP | MISO | MRO | PJM | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
| 2003 / 2004 | 36,841 | 48,079 | 364,232 | 86,332 | 45,625 | 41,719 | -- | -- | 24,134 | -- | -- | 137,972 | 28,450 | 42,702 | 102,020 | 593,874 |
| 2004 / 2005 | 44,839 | 48,176 | 376,987 | 91,800 | 45,905 | 42,929 | -- | -- | 24,526 | -- | -- | 144,337 | 29,490 | 44,010 | 102,689 | 618,701 |
| 2005 / 2006 | 42,657 | 46,828 | 381,246 | -- | -- | -- | -- | -- | 33,748 | -- | -- | 151,600 | 164,638 | 48,141 | 107,493 | 626,365 |
| 2006 / 2007 | 42,526 | 46,697 | 390,263 | -- | -- | -- | -- | -- | 34,677 | -- | -- | 149,631 | 175,163 | 50,402 | 111,093 | 640,981 |
| 2007 / 2008 | 41,701 | 46,795 | 386,301 | -- | -- | -- | -- | -- | 33,191 | -- | -- | 141,900 | 179,888 | 50,408 | 112,700 | 637,905 |
| 2008 / 2009 | 45,275 | 46,043 | 390,829 | -- | -- | -- | -- | -- | 36,029 | -- | -- | 142,395 | 179,596 | 47,806 | 113,605 | 643,557 |
| 2009 / 2010 | 53,022 | 44,864 | 405,176 | -- | -- | -- | -- | -- | 35,351 | -- | -- | 143,827 | 193,135 | 56,191 | 109,565 | 668,818 |
| 2010 / 2011 | 46,135 | 45,712 | 400,589 | -- | -- | -- | 5,069 | 86,728 | -- | 115,535 | -- | 152,030 | 41,226 | 57,315 | 101,668 | 651,418 |
| 2011 / 2012 | 40,117 | 45,234 | 404,280 | -- | -- | -- | 4,803 | 86,844 | -- | 122,563 | -- | 150,850 | 39,220 | 50,100 | 108,459 | 648,190 |
| 2012 / 2013 | 36,409 | 45,545 | 390,818 | -- | -- | -- | 5,168 | 74,430 | -- | 122,566 | -- | 153,738 | 34,916 | 46,909 | 101,706 | 621,387 |
| 2013 / 2014 | 38,701 | 47,186 | 419,610 | -- | -- | -- | 5,304 | 109,400 | -- | 140,510 | -- | 125,229 | 39,168 | 57,256 | 110,765 | 673,518 |

Notes:

NERC region and reliability assessment area maps are provided on EIA's Electricity Reliability web page: <http://www.eia.gov/ceaf/electricity/page/eia411/eia411.html>

Peak load represents an hour of a day during the associated peak period.

The Summer peak period begins on June 1 and extends through September 30.

The Winter peak period begins October 1 and extends through May 31.

Historically the MRO, RFC, SERC, and SPP regional boundaries were altered as utilities changed reliability organizations. The historical data series for these regions have not been adjusted. Instead, the Balance of Eastern Region category was introduced to provide a consistent trend of the Eastern interconnection.

ECAR, MAAC, and MAIN dissolved at the end of 2005. Many of the former utility members joined RFC. Reliability First Corporation (RFC) came into existence on January 1, 2006. RFC submitted a consolidated filing covering the historical NERC regions of ECAR, MAAC, and MAIN.

N/A - Not Available

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply and Demand Program Report."

Table 8.6.B. Noncoincident Peak Load by North American Electric Reliability Corporation Assessment Area, 2013 Actual, 2014-2018 Projected

| Summer Peak Load (Megawatts) | | | | | | | | | | | |
|------------------------------|-------------------------|--------|---------------------------|-------|---------|---------|---------|--------|--------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | MAPP | MISO | PJM | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Projected 2014 | 45,759 | 60,324 | 470,798 | 4,852 | 127,248 | 157,279 | 131,833 | 49,587 | 68,096 | 132,409 | 777,386 |
| Projected 2015 | 46,719 | 60,996 | 476,870 | 5,028 | 128,571 | 160,259 | 133,302 | 49,710 | 69,057 | 134,351 | 787,992 |
| Projected 2016 | 47,615 | 61,703 | 484,413 | 5,374 | 130,101 | 162,470 | 135,476 | 50,993 | 70,014 | 136,128 | 799,873 |
| Projected 2017 | 48,501 | 62,287 | 489,882 | 5,500 | 131,242 | 164,195 | 137,246 | 51,700 | 70,871 | 137,654 | 809,196 |
| Projected 2018 | 49,147 | 62,788 | 494,529 | 5,690 | 132,376 | 165,479 | 138,717 | 52,267 | 71,806 | 139,169 | 817,438 |

| Winter Peak Load (Megawatts) | | | | | | | | | | | |
|------------------------------|-------------------------|--------|---------------------------|-------|---------|---------|---------|--------|--------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | MAPP | MISO | PJM | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Projected 2014 / 2015 | 44,636 | 45,823 | 404,510 | 5,324 | 102,787 | 133,509 | 126,392 | 36,498 | 52,837 | 110,644 | 658,449 |
| Projected 2015 / 2016 | 45,668 | 47,550 | 409,546 | 5,457 | 104,414 | 135,526 | 127,446 | 36,702 | 53,719 | 112,163 | 668,646 |
| Projected 2016 / 2017 | 46,415 | 46,130 | 417,475 | 5,818 | 107,352 | 137,308 | 128,874 | 38,123 | 53,719 | 112,988 | 676,727 |
| Projected 2017 / 2018 | 47,165 | 46,144 | 421,426 | 5,949 | 108,414 | 138,314 | 130,201 | 38,549 | 54,579 | 113,948 | 683,263 |
| Projected 2018 / 2019 | 47,692 | 46,119 | 425,522 | 6,176 | 109,506 | 139,213 | 131,447 | 39,181 | 55,441 | 114,846 | 689,620 |

Notes:

NERC region and reliability assessment area maps are provided on EIA's Electricity Reliability web page: <http://www.eia.gov/cneaf/electricity/page/eia411/eia411.html>

Projected data are updated annually.

Peak load represents an hour of a day during the associated peak period.

The Summer peak period begins on June 1 and extends through September 30.

The Winter peak period begins October 1 and extends through May 31.

Historically the MRO, RFC, SERC, and SPP regional boundaries were altered as utilities changed reliability organizations. The historical data series for these regions have not been adjusted. Instead, the Balance of Eastern Region category was introduced to provide a consistent trend of the Eastern interconnection.

ECAR, MAAC, and MAIN dissolved at the end of 2005. Many of the former utility members joined RFC. Reliability First Corporation (RFC) came into existence on January 1, 2006. RFC submitted a consolidated filing covering the historical NERC regions of ECAR, MAAC, and MAIN.

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply and Demand Program Report."

Table 8.7.A. Net Energy for Load by North American Electric Reliability Corporation Assessment Area, 2003 - 2013, Actual

| Net Energy (Thousands of Megawatthours) | | | | | | | | | | | | | | | | |
|---|-------------------------|---------|---------------------------|---------|---------|---------|--------|---------|---------|---------|-----------|-----------|---------|---------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | ECAR | MAAC | MAIN | MAPP | MISO | MRO | PJM | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
| 2003 | 219,021 | 288,791 | 2,255,233 | 545,109 | 276,600 | 267,068 | -- | -- | 153,918 | -- | -- | 826,964 | 185,574 | 283,868 | 664,754 | 3,711,667 |
| 2004 | 220,335 | 292,725 | 2,313,180 | 553,236 | 283,646 | 274,760 | -- | -- | 152,975 | -- | -- | 856,734 | 191,829 | 289,146 | 682,053 | 3,797,439 |
| 2005 | 226,544 | 303,607 | 2,385,461 | -- | -- | -- | -- | -- | 216,633 | -- | 1,005,226 | 962,054 | 201,548 | 299,225 | 685,624 | 3,900,461 |
| 2006 | 230,115 | 294,319 | 2,361,721 | -- | -- | -- | -- | -- | 222,748 | -- | 926,279 | 1,011,173 | 201,521 | 305,672 | 720,087 | 3,911,914 |
| 2007 | 232,405 | 301,766 | 2,432,475 | -- | -- | -- | -- | -- | 217,602 | -- | 954,700 | 1,049,298 | 210,875 | 307,064 | 739,018 | 4,012,728 |
| 2008 | 226,874 | 297,362 | 2,406,730 | -- | -- | -- | -- | -- | 227,536 | -- | 936,201 | 1,035,390 | 207,603 | 312,401 | 745,691 | 3,989,058 |
| 2009 | 225,966 | 285,625 | 2,293,617 | -- | -- | -- | -- | -- | 213,797 | -- | 880,377 | 997,142 | 202,301 | 308,278 | 718,694 | 3,832,180 |
| 2010 | 233,034 | 294,276 | 2,456,553 | -- | -- | -- | 30,691 | 585,274 | -- | 712,731 | -- | 870,367 | 257,491 | 319,097 | 713,177 | 4,016,137 |
| 2011 | 224,064 | 292,482 | 2,401,810 | -- | -- | -- | 29,233 | 521,692 | -- | 739,754 | -- | 852,843 | 258,288 | 335,000 | 727,793 | 3,981,149 |
| 2012 | 220,943 | 290,914 | 2,391,745 | -- | -- | -- | 29,362 | 497,906 | -- | 781,247 | -- | 824,640 | 258,590 | 324,860 | 726,862 | 3,955,323 |
| 2013 | 221,534 | 292,882 | 2,394,268 | -- | -- | -- | 29,798 | 662,636 | -- | 791,151 | -- | 661,124 | 249,559 | 331,624 | 737,458 | 3,977,766 |

Notes:

NERC region and reliability assessment area maps are provided on EIA's Electricity Reliability web page: <http://www.eia.gov/cneaf/electricity/page/eia411/eia411.html>

Net Energy for Load represents net Balancing Authority Area generation, plus energy received from other Balancing Authority Areas, less energy delivered to other Balancing Authority Areas through interchange.

Historically the MRO, RFC, SERC, and SPP regional boundaries were altered as utilities changed reliability organizations. The historical data series for these regions have not been adjusted. Instead, the Balance of Eastern Region category was introduced to provide a consistent trend of the Eastern interconnection.

ECAR, MAAC, and MAIN dissolved at the end of 2005. Many of the former utility members joined RFC. Reliability First Corporation (RFC) came into existence on January 1, 2006. RFC submitted a consolidated filing covering the historical NERC regions of ECAR, MAAC, and MAIN.

N/A - Not Available

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply and Demand Program Report."

Table 8.7.B. Net Energy for Load by North American Electric Reliability Corporation Assessment Area, 2013 Actual, 2014-2018 Projected

| Net Energy (Thousands of Megawatthours) | | | | | | | | | | | |
|---|-------------------------|---------|---------------------------|--------|---------|---------|---------|---------|---------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | MAPP | MISO | PJM | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Projected 2014 | 226,583 | 300,524 | 2,445,975 | 34,258 | 663,498 | 832,247 | 670,957 | 245,016 | 336,339 | 729,832 | 4,039,254 |
| Projected 2015 | 231,393 | 303,642 | 2,485,243 | 35,227 | 678,295 | 847,743 | 678,264 | 245,714 | 342,899 | 740,377 | 4,103,554 |
| Projected 2016 | 235,297 | 306,242 | 2,517,276 | 37,625 | 678,759 | 863,762 | 687,569 | 249,560 | 349,440 | 746,310 | 4,154,565 |
| Projected 2017 | 237,807 | 307,589 | 2,545,542 | 39,157 | 687,728 | 870,847 | 695,714 | 252,096 | 355,922 | 753,350 | 4,200,210 |
| Projected 2018 | 240,665 | 309,138 | 2,567,849 | 40,426 | 693,234 | 878,209 | 702,210 | 253,770 | 362,338 | 760,614 | 4,240,604 |

Notes:

NERC region and reliability assessment area maps are provided on EIA's Electricity Reliability web page: <http://www.eia.gov/cneaf/electricity/page/eia411/eia411.html>

Projected data are updated annually.

Net Energy for Load represents net Balancing Authority Area generation, plus energy received from other Balancing Authority Areas, less energy delivered to other Balancing Authority Areas through interchange.

Historically the MRO, RFC, SERC, and SPP regional boundaries were altered as utilities changed reliability organizations. The historical data series for these regions have not been adjusted. Instead, the Balance of Eastern Region category was introduced to provide a consistent trend of the Eastern interconnection.

ECAR, MAAC, and MAIN dissolved at the end of 2005. Many of the former utility members joined RFC. Reliability First Corporation (RFC) came into existence on January 1, 2006. RFC submitted a consolidated filing covering the historical NERC regions of ECAR, MAAC, and MAIN.

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply and Demand Program Report."

Table 8.8.B. Summer Net Internal Demand, Capacity Resources, and Capacity Margins

by North American Electric Reliability Corporation Assessment Area, 2013 Actual, 2014-2018 Projected

| Net Internal Demand (Megawatts) -- Summer | | | | | | | | | | | |
|---|-------------------------|--------|---------------------------|-------|---------|---------|---------|--------|--------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | MAPP | MISO | PJM | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Projected 2014 | 43,579 | 58,640 | 449,894 | 4,932 | 123,828 | 145,447 | 127,262 | 48,426 | 67,140 | 130,564 | 749,817 |
| Projected 2015 | 44,442 | 59,570 | 459,619 | 5,276 | 125,345 | 150,068 | 129,243 | 49,687 | 68,097 | 132,301 | 764,029 |
| Projected 2016 | 45,259 | 60,104 | 464,908 | 5,406 | 126,475 | 151,793 | 130,850 | 50,384 | 68,954 | 133,768 | 772,994 |
| Projected 2017 | 45,859 | 60,605 | 469,373 | 5,594 | 127,598 | 153,077 | 132,161 | 50,944 | 69,889 | 135,303 | 781,029 |
| Projected 2018 | 46,479 | 61,053 | 474,178 | 5,712 | 128,679 | 154,498 | 133,766 | 51,523 | 70,942 | 136,759 | 789,412 |

| Capacity Resources (Megawatts) -- Summer | | | | | | | | | | | |
|--|-------------------------|--------|---------------------------|-------|---------|---------|---------|--------|--------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | MAPP | MISO | PJM | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Projected 2014 | 52,380 | 67,835 | 534,496 | 6,283 | 140,150 | 168,351 | 155,055 | 64,657 | 74,834 | 162,042 | 891,586 |
| Projected 2015 | 52,685 | 69,248 | 541,840 | 6,407 | 137,803 | 180,448 | 153,949 | 63,233 | 75,756 | 164,201 | 903,731 |
| Projected 2016 | 52,780 | 67,327 | 542,289 | 6,504 | 139,952 | 178,095 | 153,807 | 63,932 | 76,561 | 164,566 | 903,522 |
| Projected 2017 | 52,793 | 67,327 | 539,647 | 6,511 | 139,495 | 173,502 | 156,205 | 63,935 | 77,443 | 164,308 | 901,517 |
| Projected 2018 | 53,939 | 67,331 | 541,313 | 6,501 | 139,111 | 173,526 | 158,108 | 64,068 | 76,843 | 164,603 | 904,028 |

| Capacity Margin (Percent) -- Summer | | | | | | | | | | | |
|-------------------------------------|-------------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | MAPP | MISO | PJM | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Projected 2014 | 16.8% | 13.6% | 15.8% | 21.5% | 11.6% | 13.6% | 17.9% | 25.1% | 10.3% | 19.4% | 15.9% |
| Projected 2015 | 15.6% | 14.0% | 15.2% | 17.7% | 9.0% | 16.8% | 16.0% | 21.4% | 10.1% | 19.4% | 15.5% |
| Projected 2016 | 14.2% | 10.7% | 14.3% | 16.9% | 9.6% | 14.8% | 14.9% | 21.2% | 9.9% | 18.7% | 14.4% |
| Projected 2017 | 13.1% | 10.0% | 13.0% | 14.1% | 8.5% | 11.8% | 15.4% | 20.3% | 9.8% | 17.7% | 13.4% |
| Projected 2018 | 13.8% | 9.3% | 12.4% | 12.1% | 7.5% | 11.0% | 15.4% | 19.6% | 7.7% | 16.9% | 12.7% |

Notes:

NERC region and reliability assessment area maps are provided on EIA's Electricity Reliability web page: <http://www.eia.gov/cneaf/electricity/page/eia411/eia411.html>

Net Internal Demand represent the system demand that is planned for by the electric power industry's reliability authority and is equal to Internal Demand less Direct Control Load Management and Interruptible Demand.

Capacity Resources: Utility and nonutility-owned generating capacity that is existing or in various stages of planning or construction, less inoperable capacity, plus planned capacity purchases from other resources, less planned capacity sales.

Capacity Margin is the amount of unused available capability of an electric power system at peak load as a percentage of capacity resources.

The Summer peak period begins on June 1 and extends through September 30.

Historically the MRO, RFC, SERC, and SPP regional boundaries were altered as utilities changed reliability organizations. The historical data series for these regions have not been adjusted. Instead, the Balance of Eastern Region category was introduced to provide a consistent trend of the Eastern interconnection.

ECAR, MAAC, and MAIN dissolved at the end of 2005. Many of the former utility members joined RFC. Reliability First Corporation (RFC) came into existence on January 1, 2006. RFC submitted a consolidated filing covering the historical NERC regions of ECAR, MAAC, and MAIN.

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply and Demand Program Report."

Table 8.9.B. Winter Net Internal Demand, Capacity Resources, and Capacity Margins

by North American Electric Reliability Corporation Assessment Area, 2013 Actual, 2014-2018 Projected

| Net Internal Demand (Megawatts) -- Winter | | | | | | | | | | | |
|---|-------------------------|--------|---------------------------|-------|---------|---------|---------|--------|--------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | MAPP | MISO | PJM | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Projected 2014 / 2015 | 42,668 | 45,578 | 400,305 | 5,071 | 99,671 | 135,526 | 124,395 | 35,642 | 52,057 | 110,172 | 650,781 |
| Projected 2015 / 2016 | 43,370 | 44,357 | 407,766 | 5,433 | 102,597 | 137,308 | 125,361 | 37,067 | 52,057 | 110,977 | 658,528 |
| Projected 2016 / 2017 | 44,089 | 44,323 | 411,844 | 5,559 | 103,648 | 138,314 | 126,826 | 37,498 | 52,917 | 111,896 | 665,069 |
| Projected 2017 / 2018 | 44,547 | 44,298 | 415,770 | 5,781 | 104,727 | 139,213 | 127,920 | 38,129 | 53,779 | 112,765 | 671,158 |
| Projected 2018 / 2019 | 45,051 | 44,345 | 419,510 | 5,911 | 105,667 | 139,975 | 129,464 | 38,493 | 54,619 | 113,860 | 677,384 |

| Capacity Resources (Megawatts) -- Winter | | | | | | | | | | | |
|--|-------------------------|--------|---------------------------|-------|---------|---------|---------|--------|--------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | MAPP | MISO | PJM | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Projected 2014 / 2015 | 55,546 | 72,236 | 558,497 | 6,777 | 136,278 | 183,163 | 168,116 | 64,164 | 76,615 | 154,203 | 917,097 |
| Projected 2015 / 2016 | 57,291 | 73,376 | 562,037 | 6,727 | 134,124 | 192,850 | 165,419 | 62,917 | 77,492 | 158,375 | 928,571 |
| Projected 2016 / 2017 | 56,916 | 71,463 | 564,990 | 6,687 | 136,690 | 190,497 | 167,577 | 63,539 | 78,475 | 156,580 | 928,425 |
| Projected 2017 / 2018 | 57,376 | 71,474 | 561,663 | 6,671 | 136,233 | 185,904 | 169,163 | 63,691 | 78,475 | 157,302 | 926,289 |
| Projected 2018 / 2019 | 58,327 | 71,474 | 562,016 | 6,679 | 135,849 | 185,928 | 170,129 | 63,431 | 77,865 | 155,603 | 925,284 |

| Capacity Margin (Percent) -- Winter | | | | | | | | | | | |
|-------------------------------------|-------------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------------------------|----------------------|
| Period | Eastern Interconnection | | | | | | | | ERCOT | Western Interconnection | All Interconnections |
| | FRCC | NPCC | Balance of Eastern Region | MAPP | MISO | PJM | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Projected 2014 / 2015 | 23.2% | 36.9% | 28.3% | 25.2% | 26.9% | 26.0% | 26.0% | 44.5% | 32.1% | 28.6% | 29.0% |
| Projected 2015 / 2016 | 24.3% | 39.5% | 27.4% | 19.2% | 23.5% | 28.8% | 24.2% | 41.1% | 32.8% | 29.9% | 29.1% |
| Projected 2016 / 2017 | 22.5% | 38.0% | 27.1% | 16.9% | 24.2% | 27.4% | 24.3% | 41.0% | 32.6% | 28.5% | 28.4% |
| Projected 2017 / 2018 | 22.4% | 38.0% | 26.0% | 13.3% | 23.1% | 25.1% | 24.4% | 40.1% | 31.5% | 28.3% | 27.5% |
| Projected 2018 / 2019 | 22.8% | 38.0% | 25.4% | 11.5% | 22.2% | 24.7% | 23.9% | 39.3% | 29.9% | 26.8% | 26.8% |

Notes:

NERC region and reliability assessment area maps are provided on EIA's Electricity Reliability web page: <http://www.eia.gov/cneaf/electricity/page/eia411/eia411.html>

Net Internal Demand represent the system demand that is planned for by the electric power industry's reliability authority and is equal to Internal Demand less Direct Control Load Management and Interruptible Demand.

Capacity Resources: Utility and nonutility-owned generating capacity that is existing or in various stages of planning or construction, less inoperable capacity, plus planned capacity purchases from other resources, less planned capacity sales.

Capacity Margin is the amount of unused available capability of an electric power system at peak load as a percentage of capacity resources.

The Winter peak period begins October 1 and extends through May 31.

Historically the MRO, RFC, SERC, and SPP regional boundaries were altered as utilities changed reliability organizations. The historical data series for these regions have not been adjusted. Instead, the Balance of Eastern Region category was introduced to provide a consistent trend of the Eastern interconnection.

ECAR, MAAC, and MAIN dissolved at the end of 2005. Many of the former utility members joined RFC. Reliability First Corporation (RFC) came into existence on January 1, 2006. RFC submitted a consolidated filing covering the historical NERC regions of ECAR, MAAC, and MAIN.

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply and Demand Program Report."

Table 8.10.A. Existing Transmission Capacity by High-Voltage Size, 2013

| Voltage | | Circuit Miles | | | | | | | | |
|----------------------------|--------------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|-----------------|
| Type | Operating (kV) | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
| AC | 100-199 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC | 200-299 | 5,454 | 7,304 | 1,502 | 6,848 | 22,061 | 3,205 | -- | 37,947 | 84,321 |
| AC | 300-399 | -- | 7,034 | 4,968 | 13,461 | 3,488 | 5,295 | 12,141 | 10,901 | 57,287 |
| AC | 400-599 | 1,201 | 475 | -- | 2,578 | 8,841 | 94 | -- | 12,968 | 26,156 |
| AC | 600-799 | -- | -- | 190 | 2,164 | -- | -- | -- | -- | 2,354 |
| AC Multi-Circuit Structure | 200-299 | 612 | 1,190 | 36 | 1,320 | 2,775 | 9 | -- | 4,916 | 10,856 |
| AC Multi-Circuit Structure | 300-399 | -- | 994 | 284 | 2,334 | 310 | 155 | 1,116 | 435 | 5,627 |
| AC Multi-Circuit Structure | 400-599 | -- | -- | -- | 90 | 855 | -- | -- | 126 | 1,071 |
| AC Multi-Circuit Structure | 600-799 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC Multi-Circuit Structure | Mixed | -- | 57 | 26 | -- | 38 | -- | -- | 179 | 299 |
| AC Total | US Total | 7,267 | 17,052 | 7,005 | 28,794 | 38,367 | 8,757 | 13,257 | 67,472 | 187,971 |
| DC | 100-199 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DC | 200-299 | -- | 176 | -- | -- | -- | -- | -- | 53 | 229 |
| DC | 300-399 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DC | 400-499 | -- | 872 | -- | -- | -- | -- | -- | -- | 872 |
| DC | 500-599 | -- | -- | -- | 66 | -- | -- | -- | 2,137 | 2,203 |
| DC | 600-799 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DC Total | US Total | -- | 1,048 | -- | 66 | -- | -- | -- | 2,190 | 3,304 |
| Grand Total | Grand Total | 7,267 | 18,100 | 7,005 | 28,860 | 38,367 | 8,757 | 13,257 | 69,662 | 191,275 |

| Voltage | | Circuit Counts | | | | | | | | |
|----------------------------|--------------------|----------------|------------|------------|--------------|--------------|------------|------------|--------------|-----------------|
| Type | Operating (kV) | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
| AC | 100-199 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC | 200-299 | 437 | 180 | 61 | 571 | 1,317 | 137 | -- | 1,491 | 4,195 |
| AC | 300-399 | -- | 190 | 231 | 481 | 113 | 123 | 352 | 152 | 1,643 |
| AC | 400-599 | 20 | 2 | -- | 82 | 236 | 1 | -- | 237 | 578 |
| AC | 600-799 | -- | -- | 2 | 31 | -- | -- | -- | -- | 33 |
| AC Multi-Circuit Structure | 200-299 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC Multi-Circuit Structure | 300-399 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC Multi-Circuit Structure | 400-599 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC Multi-Circuit Structure | 600-799 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC Multi-Circuit Structure | Mixed | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC Total | US Total | 457 | 373 | 294 | 1,165 | 1,666 | 261 | 352 | 1,880 | 6,448 |
| DC | 100-199 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DC | 200-299 | -- | * | -- | -- | -- | -- | -- | 1 | 1 |
| DC | 300-399 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DC | 400-499 | -- | 2 | -- | -- | -- | -- | -- | -- | 2 |
| DC | 500-599 | -- | -- | -- | 1 | -- | -- | -- | 4 | 5 |
| DC | 600-799 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DC Total | US Total | -- | 2 | -- | 1 | -- | -- | -- | 5 | 8 |
| Grand Total | Grand Total | 457 | 375 | 294 | 1,166 | 1,666 | 261 | 352 | 1,885 | 6,457 |

Notes:

NERC region and reliability assessment area maps are provided on EIA's Electricity Reliability web page: <http://www.eia.gov/cneaf/electricity/page/eia411/eia411.html>

Circuit miles do not equal physical miles on the ground; the reference terminology for that concept is structural mile.

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply and Demand Program Report."

**Table 8.10.B. Proposed Transmission Capacity Additions by High-Voltage Size, 2014 - 2020
(Circuit Miles of Transmission)**

| Voltage | | Circuit Miles | | | | | | | |
|--------------------|----------------|---------------|--------------|--------------|--------------|--------------|------------|------------|---------------|
| Type | Operating (kV) | Year 2014 | Year 2015 | Year 2016 | Year 2017 | Year 2018 | Year 2019 | Year 2020 | All Years |
| AC | 100-199 | 918 | 1,516 | 519 | 313 | 358 | 187 | 129 | 3,940 |
| AC | 200-299 | 667 | 827 | 180 | 409 | 69 | 68 | 178 | 2,400 |
| AC | 300-399 | 1,184 | 954 | 653 | 450 | 1,003 | 124 | 159 | 4,528 |
| AC | 400-599 | 6 | 292 | -- | 60 | 19 | -- | -- | 377 |
| AC | 600+ | -- | 14 | -- | -- | -- | -- | 499 | 513 |
| AC Total | | 2,775 | 3,603 | 1,353 | 1,232 | 1,450 | 380 | 965 | 11,758 |
| DC | 100-199 | -- | -- | -- | -- | -- | -- | -- | -- |
| DC | 200-299 | -- | -- | -- | -- | -- | -- | -- | -- |
| DC | 300-399 | -- | -- | -- | 188 | 72 | -- | -- | 260 |
| DC | 400-599 | -- | -- | -- | -- | -- | -- | -- | -- |
| DC | 600+ | -- | -- | -- | -- | -- | -- | -- | -- |
| DC Total | | -- | -- | -- | 188 | 72 | -- | -- | 260 |
| Grand Total | | 2,775 | 3,603 | 1,353 | 1,420 | 1,522 | 380 | 965 | 12,018 |

Notes:

NERC region and reliability assessment area maps are provided on EIA's Electricity Reliability web page: <http://www.eia.gov/cneaf/electricity/page/eia411/eia411.html>

Circuit miles do not equal physical miles on the ground; the reference terminology for that concept is structural mile.

Some structures were designed and then built to carry future transmission circuits in order to handle expected growth in new capability requirements.

Lines are taken out of service for a variety of reasons including intentional changes to the right-of-way to better use available land for different levels of voltage and types of poles and towers.

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply and Demand Program Report."

Table 8.11.A. U.S. Transmission Circuit Outages by Type and NERC region, 2013

| Outage Type | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
|---|--------|--------|--------|--------|-------|-------|-------|-------|-----------------|
| Circuit Outage Counts | | | | | | | | | |
| Automatic Outages (Sustained) | 117 | 195 | 122 | 214 | 315 | 116 | 80 | 739 | 1,898 |
| Non-Automatic Outages (Operational) | 72 | 36 | 101 | 156 | 177 | 10 | 32 | 566 | 1,150 |
| Non-Automatic Outages (Planned) | 2,350 | 396 | 459 | 1,532 | 2,268 | 288 | 691 | 2,893 | 10,877 |
| Circuit Outage Hours | | | | | | | | | |
| Automatic Outages (Sustained) | 803 | 4,315 | 19,584 | 21,108 | 4,937 | 2,477 | 1,937 | 6,173 | 61,333 |
| Non-Automatic Outages (Operational) | 132 | 242 | 30 | 76 | 232 | 2 | 22 | 52 | 787 |
| Non-Automatic Outages (Planned) | 301 | 10,525 | 1,230 | 1,667 | 839 | 400 | 162 | 1,052 | 16,177 |
| Circuit Outage Counts per 1,000 Circuit Miles | | | | | | | | | |
| Automatic Outages (Sustained) | 16.10 | 10.77 | 17.42 | 7.42 | 8.21 | 13.25 | 6.03 | 10.61 | 9.92 |
| Non-Automatic Outages (Operational) | 9.91 | 1.99 | 14.42 | 5.41 | 4.61 | 1.14 | 2.41 | 8.12 | 6.01 |
| Non-Automatic Outages (Planned) | 323.40 | 21.88 | 65.52 | 53.08 | 59.11 | 32.89 | 52.12 | 41.53 | 56.87 |
| Circuit Outage Hours per Outage Incident | | | | | | | | | |
| Automatic Outages (Sustained) | 6.86 | 22.13 | 160.52 | 98.63 | 15.67 | 21.35 | 24.21 | 8.35 | 32.31 |
| Non-Automatic Outages (Operational) | 1.83 | 6.72 | 0.29 | 0.49 | 1.31 | 0.23 | 0.70 | 0.09 | 0.68 |
| Non-Automatic Outages (Planned) | 0.13 | 26.58 | 2.68 | 1.09 | 0.37 | 1.39 | 0.23 | 0.36 | 1.49 |

Notes:

Circuit Miles for each region is displayed in Table 8.10.A.

An Automatic Outage is an outage which results from the automatic operation of a switching device, causing an Element to change from an In-Service State to a not In-Service State.

A Sustained Outage is an automatic outage with an outage duration of a minute or greater.

A Non-Automatic Outage is an outage which results from the manual operation (including supervisory control) of a switching device, causing an element to change from an In-Service State to a not In-Service State.

An Operational Outage is a Non-Automatic Outage for the purpose of avoiding an emergency (i.e., risk to human life, damage to equipment, damage to property) or to maintain the system within operational limits and that cannot be deferred.

A Planned Outage is a Non-Automatic Outage with advance notice for the purpose of maintenance, construction, inspection, testing, or planned activities by third parties that may be deferred.

Detailed information on the Transmission Availability Data System outage definitions is available at:

<http://www.nerc.com/docs/pc/tadswg/Appendix%207%2020101202a%20clean.pdf>

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply Program Report."

Table 8.11.B. U.S. Transformer Outages by Type and NERC region, 2013

| Outage Type | Eastern Interconnection | TRE | WECC | Contiguous U.S. |
|--|-------------------------|-----|-------|-----------------|
| Circuit Outage Counts | | | | |
| Automatic Outages (Sustained) | 59 | -- | 33 | 92 |
| Non-Automatic Outages (Operational) | 24 | -- | 142 | 166 |
| Non-Automatic Outages (Planned) | 263 | -- | 236 | 499 |
| Circuit Outage Hours | | | | |
| Automatic Outages (Sustained) | 19,271 | -- | 1,322 | 20,592 |
| Non-Automatic Outages (Operational) | 101 | -- | 16 | 117 |
| Non-Automatic Outages (Planned) | 2,812 | -- | 419 | 3,231 |
| Circuit Outage Hours per Outage Incident | | | | |
| Automatic Outages (Sustained) | 326.62 | -- | 40.05 | 223.83 |
| Non-Automatic Outages (Operational) | 4.20 | -- | 0.11 | 0.70 |
| Non-Automatic Outages (Planned) | 10.69 | -- | 1.78 | 6.48 |

Notes:

An Automatic Outage is an outage which results from the automatic operation of a switching device, causing an Element to change from an In-Service State to a not In-Service State.

A Sustained Outage is an automatic outage with an outage duration of a minute or greater.

A Non-Automatic Outage is an outage which results from the manual operation (including supervisory control) of a switching device, causing an element to change from an In-Service State to a not In-Service State.

An Operational Outage is a Non-Automatic Outage for the purpose of avoiding an emergency (i.e., risk to human life, damage to equipment, damage to property) or to maintain the system within operational limits and that cannot be deferred.

A Planned Outage is a Non-Automatic Outage with advance notice for the purpose of maintenance, construction, inspection, testing, or planned activities by third parties that may be deferred.

Detailed information on the Transmission Availability Data System outage definitions is available at:

<http://www.nerc.com/docs/pc/tadswg/Appendix%207%2020101202a%20clean.pdf>

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply Program Report."

Table 8.12.A. U.S. Transmission Circuit Sustained Automatic Outage Counts and Hours by High-Voltage Size and NERC Region, 2013

| Sustained Automatic Outage Counts | | | | | | | | | | | |
|-----------------------------------|----------------|------------|------------|------------|------------|------------|------------|-----------|------------|-----------------|----|
| Voltage | | Region | | | | | | | | | |
| Type | Operating (kV) | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. | |
| AC | 0-99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC | 200-299 | 113 | 96 | 25 | 90 | 194 | 56 | -- | 406 | 980 | |
| AC | 300-399 | -- | 89 | 93 | 85 | 37 | 60 | 80 | 174 | 618 | |
| AC | 400-599 | 4 | 1 | -- | 23 | 84 | -- | -- | 143 | 255 | |
| AC | 600+ | -- | -- | 4 | 11 | -- | -- | -- | -- | 15 | |
| AC Total | | 117 | 186 | 122 | 209 | 315 | 116 | 80 | 723 | 1,868 | |
| DC | 0-99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| DC | 100-199 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| DC | 200-299 | -- | 6 | -- | -- | -- | -- | -- | -- | 6 | |
| DC | 300-399 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| DC | 400-499 | -- | 3 | -- | -- | -- | -- | -- | -- | 3 | |
| DC | 500-599 | -- | -- | -- | 5 | -- | -- | -- | 16 | 21 | |
| DC | 600+ | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| DC Total | | -- | 9 | -- | 5 | -- | -- | -- | 16 | 30 | |
| Grand Total | | 117 | 195 | 122 | 214 | 315 | 116 | 80 | 739 | 1,898 | |

| Total Outages per 1,000 Circuit Miles | | | | | | | | | | | |
|---------------------------------------|--|--------------|--------------|--------------|-------------|-------------|--------------|-------------|--------------|-----------------|--|
| | | Region | | | | | | | | | |
| | | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. | |
| Rate | | 16.21 | 11.13 | 16.10 | 8.47 | 9.19 | 13.90 | 8.40 | 11.49 | 10.90 | |

| Sustained Automatic Outage Hours | | | | | | | | | | | |
|----------------------------------|----------------|------------|--------------|---------------|---------------|--------------|--------------|--------------|--------------|-----------------|--|
| Voltage | | Region | | | | | | | | | |
| Type | Operating (kV) | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. | |
| AC | 0-99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| AC | 200-299 | 778 | 1,288 | 9,072 | 3,052 | 2,194 | 366 | -- | 3,316 | 20,067 | |
| AC | 300-399 | -- | 2,889 | 10,497 | 9,302 | 424 | 2,111 | 1,937 | 370 | 27,528 | |
| AC | 400-599 | 25 | 4 | -- | 8,067 | 2,320 | -- | -- | 2,438 | 12,853 | |
| AC | 600+ | -- | -- | 15 | 663 | -- | -- | -- | -- | 678 | |
| AC Total | | 803 | 4,181 | 19,584 | 21,084 | 4,937 | 2,477 | 1,937 | 6,125 | 61,127 | |
| DC | 0-99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| DC | 100-199 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| DC | 200-299 | -- | 125 | -- | -- | -- | -- | -- | -- | 125 | |
| DC | 300-399 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| DC | 400-499 | -- | 10 | -- | -- | -- | -- | -- | -- | 10 | |
| DC | 500-599 | -- | -- | -- | 23 | -- | -- | -- | 49 | 72 | |
| DC | 600+ | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| DC Total | | -- | 134 | -- | 23 | -- | -- | -- | 49 | 206 | |
| Grand Total | | 803 | 4,315 | 19,584 | 21,108 | 4,937 | 2,477 | 1,937 | 6,173 | 61,333 | |

| Outage Hours per Outage Incident | | | | | | | | | | | |
|----------------------------------|--|-------------|--------------|---------------|--------------|--------------|--------------|--------------|-------------|-----------------|--|
| | | Region | | | | | | | | | |
| | | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. | |
| Rate | | 6.86 | 22.13 | 160.52 | 98.63 | 15.67 | 21.35 | 24.21 | 8.35 | 32.31 | |

Notes:

* = Value is less than half of the smallest unit of measure. (e.g., for values with no decimals, the smallest unit is 1 then values under 0.5 are shown as *.)

Circuit Miles for each region is displayed in Table 8.10.A.

An Automatic Outage is an outage which results from the automatic operation of a switching device, causing an Element to change from an In-Service State to a not In-Service State.

A Sustained Outage is an automatic outage with an outage duration of a minute or greater.

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply Program Report."

Table 8.12.B. U.S. Transformer Sustained Automatic Outage Counts

and Hours by High-Voltage Size and NERC Region, 2013

| Sustained Automatic Outage Counts | | | | |
|-----------------------------------|-------------------------|-----------|-----------|-----------------|
| High-Side Voltage (kV) | Eastern Interconnection | TRE | WECC | Contiguous U.S. |
| 100-199 | -- | -- | -- | -- |
| 200-299 | 3 | -- | 7 | 10 |
| 300-399 | 17 | -- | 10 | 27 |
| 400-599 | 30 | -- | 16 | 46 |
| 600+ | 9 | -- | -- | 9 |
| Grand Total | 59 | -- | 33 | 92 |

| Sustained Automatic Outage Hours | | | | |
|----------------------------------|-------------------------|-----------|--------------|-----------------|
| High-Side Voltage (kV) | Eastern Interconnection | TRE | WECC | Contiguous U.S. |
| 100-199 | -- | -- | -- | -- |
| 200-299 | 32 | -- | 45 | 77 |
| 300-399 | 303 | -- | 261 | 565 |
| 400-599 | 11,948 | -- | 1,015 | 12,964 |
| 600+ | 6,987 | -- | -- | 6,987 |
| Grand Total | 19,271 | -- | 1,322 | 20,592 |

| Outage Hours per Outage Incident | | | | |
|----------------------------------|-------------------------|-----------|--------------|-----------------|
| | Eastern Interconnection | TRE | WECC | Contiguous U.S. |
| Rate | 326.62 | -- | 40.05 | 223.83 |

Notes:

* = Value is less than half of the smallest unit of measure. (e.g., for values with no decimals, the smallest unit is 1 then values under 0.5 are shown as *.)

Eastern NERC Regions are aggregated to preserve confidentiality.

An Automatic Outage is an outage which results from the automatic operation of a switching device, causing an Element to change from an In-Service State to a not In-Service State.

A Sustained Outage is an automatic outage with an outage duration of a minute or greater.

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply Program Report."

Table 8.13.A. U.S. Transmission Circuit Sustained Automatic Outage Counts and

Hours by Cause Code and by NERC Region, 2013 (Page 1)

| Sustained Outage Causes | AC & DC Circuit Outage Counts | | | | | | | | |
|---|-------------------------------|------------|------------|------------|------------|------------|-----------|------------|-----------------|
| | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Weather, excluding lightning | 3 | 60 | 24 | 17 | 14 | 25 | 4 | 50 | 197 |
| Lightning | 6 | 11 | 6 | 4 | 21 | 14 | 11 | 54 | 127 |
| Environmental | -- | -- | -- | -- | -- | 2 | -- | 5 | 7 |
| Contamination | 4 | 4 | -- | 1 | 15 | -- | 6 | 16 | 46 |
| Foreign Interference | 21 | -- | 1 | 12 | 28 | 2 | 2 | 23 | 89 |
| Fire | 1 | -- | 1 | 1 | 3 | -- | -- | 50 | 56 |
| Vandalism, Terrorism, or Malicious Acts | -- | -- | -- | -- | 7 | -- | -- | -- | 7 |
| Failed AC Substation Equipment | 8 | 24 | 21 | 46 | 42 | 18 | 14 | 59 | 232 |
| Failed AC/DC Terminal Equipment | -- | 3 | -- | 4 | -- | -- | -- | 1 | 8 |
| Failed Protection System Equipment | 9 | 16 | 17 | 23 | 42 | 3 | 10 | 39 | 159 |
| Failed AC Circuit Equipment | 39 | 15 | 17 | 23 | 53 | 12 | 11 | 63 | 233 |
| Failed DC Circuit Equipment | -- | 2 | -- | -- | -- | -- | -- | -- | 2 |
| Vegetation | 1 | -- | 3 | 2 | 14 | 1 | -- | 4 | 25 |
| Power System Condition | 1 | 1 | 3 | 11 | 3 | 14 | 3 | 60 | 96 |
| Human Error | 8 | 22 | 15 | 39 | 36 | 12 | 6 | 86 | 224 |
| Unknown | 15 | 27 | 7 | 15 | 26 | 7 | 9 | 156 | 262 |
| Other | 1 | 10 | 7 | 6 | 11 | 6 | 4 | 73 | 118 |
| TOTAL | 117 | 195 | 122 | 214 | 315 | 116 | 80 | 739 | 1,898 |

| Sustained Outage Causes | Percentage of Total AC & DC Circuit Outage Counts | | | | | | | | |
|---|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Weather, excluding lightning | 2.6% | 30.8% | 19.7% | 7.9% | 4.4% | 21.6% | 5.0% | 6.8% | 10.4% |
| Lightning | 5.1% | 5.6% | 4.9% | 1.9% | 6.7% | 12.1% | 13.8% | 7.3% | 6.7% |
| Environmental | -- | -- | -- | -- | -- | 1.7% | -- | 0.7% | 0.4% |
| Contamination | 3.4% | 2.1% | -- | 0.5% | 4.8% | -- | 7.5% | 2.2% | 2.4% |
| Foreign Interference | 18.0% | -- | 0.8% | 5.6% | 8.9% | 1.7% | 2.5% | 3.1% | 4.7% |
| Fire | 0.9% | -- | 0.8% | 0.5% | 1.0% | -- | -- | 6.8% | 3.0% |
| Vandalism, Terrorism, or Malicious Acts | -- | -- | -- | -- | 2.2% | -- | -- | -- | 0.4% |
| Failed AC Substation Equipment | 6.8% | 12.3% | 17.2% | 21.5% | 13.3% | 15.5% | 17.5% | 8.0% | 12.2% |
| Failed AC/DC Terminal Equipment | -- | 1.5% | -- | 1.9% | -- | -- | -- | 0.1% | 0.4% |
| Failed Protection System Equipment | 7.7% | 8.2% | 13.9% | 10.8% | 13.3% | 2.6% | 12.5% | 5.3% | 8.4% |
| Failed AC Circuit Equipment | 33.3% | 7.7% | 13.9% | 10.8% | 16.8% | 10.3% | 13.8% | 8.5% | 12.3% |
| Failed DC Circuit Equipment | -- | 1.0% | -- | -- | -- | -- | -- | -- | 0.1% |
| Vegetation | 0.9% | -- | 2.5% | 0.9% | 4.4% | 0.9% | -- | 0.5% | 1.3% |
| Power System Condition | 0.9% | 0.5% | 2.5% | 5.1% | 1.0% | 12.1% | 3.8% | 8.1% | 5.1% |
| Human Error | 6.8% | 11.3% | 12.3% | 18.2% | 11.4% | 10.3% | 7.5% | 11.6% | 11.8% |
| Unknown | 12.8% | 13.9% | 5.7% | 7.0% | 8.3% | 6.0% | 11.3% | 21.1% | 13.8% |
| Other | 0.9% | 5.1% | 5.7% | 2.8% | 3.5% | 5.2% | 5.0% | 9.9% | 6.2% |
| TOTAL | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Notes:

Detailed information on the Transmission Availability Data System outage causes is available at:

<http://www.nerc.com/docs/pc/tadswg/Appendix%207%2020101202a%20clean.pdf>

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply Program Report."

Table 8.13.A. U.S. Transmission Circuit Sustained Automatic Outage Counts and

Hours by Cause Code and by NERC Region, 2013 (Page 2)

| Sustained Outage Causes | AC & DC Circuit Outage Hours | | | | | | | | |
|---|------------------------------|--------------|---------------|---------------|--------------|--------------|--------------|--------------|-----------------|
| | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Weather, excluding lightning | 11 | 483 | 279 | 7,599 | 686 | 1,652 | 51 | 164 | 10,925 |
| Lightning | 8 | 3 | 4 | 42 | 84 | 12 | 51 | 101 | 306 |
| Environmental | -- | -- | -- | 2,065 | -- | 2 | -- | 27 | 2,094 |
| Contamination | 6 | 0 | -- | 0 | 422 | -- | 19 | 113 | 561 |
| Foreign Interference | 77 | -- | 11 | 27 | 220 | 0 | 237 | 152 | 725 |
| Fire | 0 | -- | 65 | 2 | 69 | -- | -- | 782 | 918 |
| Vandalism, Terrorism, or Malicious Acts | -- | -- | -- | -- | 637 | -- | -- | -- | 637 |
| Failed AC Substation Equipment | 255 | 2,103 | 13,975 | 9,163 | 658 | 85 | 234 | 1,734 | 28,206 |
| Failed AC/DC Terminal Equipment | -- | 33 | -- | 23 | -- | -- | -- | 3 | 59 |
| Failed Protection System Equipment | 5 | 42 | 81 | 117 | 457 | 115 | 129 | 88 | 1,035 |
| Failed AC Circuit Equipment | 367 | 1,507 | 3,676 | 1,579 | 1,257 | 411 | 1,145 | 1,436 | 11,378 |
| Failed DC Circuit Equipment | -- | 69 | -- | -- | -- | -- | -- | -- | 69 |
| Vegetation | 22 | -- | 69 | 51 | 124 | 17 | -- | 48 | 330 |
| Power System Condition | 13 | 0 | 27 | 61 | 13 | 125 | 0 | 591 | 830 |
| Human Error | 13 | 24 | 26 | 193 | 99 | 8 | 22 | 445 | 830 |
| Unknown | 21 | 35 | 1,347 | 74 | 148 | 35 | 37 | 286 | 1,981 |
| Other | 6 | 14 | 27 | 111 | 62 | 14 | 13 | 203 | 449 |
| TOTAL | 803 | 4,315 | 19,584 | 21,108 | 4,937 | 2,477 | 1,937 | 6,173 | 61,333 |

| Sustained Outage Causes | Percentage of Total AC & DC Circuit Outage Hours | | | | | | | | |
|---|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Weather, excluding lightning | 1.3% | 11.2% | 1.4% | 36.0% | 13.9% | 66.7% | 2.6% | 2.7% | 17.8% |
| Lightning | 1.0% | 0.1% | 0.0% | 0.2% | 1.7% | 0.5% | 2.6% | 1.6% | 0.5% |
| Environmental | -- | -- | -- | 9.8% | -- | 0.1% | -- | 0.4% | 3.4% |
| Contamination | 0.7% | 0.0% | -- | 0.0% | 8.6% | -- | 1.0% | 1.8% | 0.9% |
| Foreign Interference | 9.6% | -- | 0.1% | 0.1% | 4.5% | 0.0% | 12.3% | 2.5% | 1.2% |
| Fire | 0.0% | -- | 0.3% | 0.0% | 1.4% | -- | -- | 12.7% | 1.5% |
| Vandalism, Terrorism, or Malicious Acts | -- | -- | -- | -- | 12.9% | -- | -- | -- | 1.0% |
| Failed AC Substation Equipment | 31.8% | 48.8% | 71.4% | 43.4% | 13.3% | 3.4% | 12.1% | 28.1% | 46.0% |
| Failed AC/DC Terminal Equipment | -- | 0.8% | -- | 0.1% | -- | -- | -- | 0.1% | 0.1% |
| Failed Protection System Equipment | 0.6% | 1.0% | 0.4% | 0.6% | 9.3% | 4.7% | 6.7% | 1.4% | 1.7% |
| Failed AC Circuit Equipment | 45.7% | 34.9% | 18.8% | 7.5% | 25.5% | 16.6% | 59.1% | 23.3% | 18.6% |
| Failed DC Circuit Equipment | -- | 1.6% | -- | -- | -- | -- | -- | -- | 0.1% |
| Vegetation | 2.8% | -- | 0.4% | 0.2% | 2.5% | 0.7% | -- | 0.8% | 0.5% |
| Power System Condition | 1.6% | 0.0% | 0.1% | 0.3% | 0.3% | 5.1% | 0.0% | 9.6% | 1.4% |
| Human Error | 1.6% | 0.6% | 0.1% | 0.9% | 2.0% | 0.3% | 1.1% | 7.2% | 1.4% |
| Unknown | 2.6% | 0.8% | 6.9% | 0.4% | 3.0% | 1.4% | 1.9% | 4.6% | 3.2% |
| Other | 0.7% | 0.3% | 0.1% | 0.5% | 1.3% | 0.6% | 0.7% | 3.3% | 0.7% |
| TOTAL | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Notes:

Detailed information on the Transmission Availability Data System outage causes is available at:

<http://www.nerc.com/docs/pc/tadswg/Appendix%207%2020101202a%20clean.pdf>

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply Program Report."

Table 8.13.B. U.S. Transformer Sustained Automatic Outage Counts and

Hours by Cause Code and by NERC Region, 2013 (Page 1)

| Sustained Outage Causes | Transformer Outage Counts | | | | | | | | |
|---|---------------------------|----------|----------|-----------|-----------|----------|-----------|-----------|-----------------|
| | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Weather, excluding lightning | -- | -- | 2 | 1 | -- | -- | -- | -- | 3 |
| Lightning | -- | -- | -- | 1 | -- | -- | -- | -- | 1 |
| Environmental | -- | -- | -- | -- | 2 | -- | -- | -- | 2 |
| Contamination | -- | -- | -- | 1 | -- | -- | -- | -- | 1 |
| Foreign Interference | -- | -- | -- | -- | -- | -- | -- | 1 | 1 |
| Fire | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Vandalism, Terrorism, or Malicious Acts | -- | -- | -- | -- | 2 | -- | -- | -- | 2 |
| Failed AC Substation Equipment | -- | -- | 2 | 13 | 8 | 1 | -- | 7 | 31 |
| Failed AC/DC Terminal Equipment | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Failed Protection System Equipment | 1 | -- | -- | 3 | 1 | -- | -- | 5 | 10 |
| Failed AC Circuit Equipment | -- | -- | -- | 1 | 1 | -- | -- | 2 | 4 |
| Failed DC Circuit Equipment | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Vegetation | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Power System Condition | -- | -- | -- | -- | -- | -- | -- | 3 | 3 |
| Human Error | 1 | 7 | -- | 4 | 1 | -- | -- | 6 | 19 |
| Unknown | -- | 2 | -- | 1 | -- | -- | -- | 6 | 9 |
| Other | -- | -- | -- | 1 | -- | 1 | -- | 3 | 5 |
| TOTAL | 2 | 9 | 4 | 27 | 15 | 2 | -- | 33 | 92 |

| Sustained Outage Causes | Percentage of Total Transformer Outage Counts | | | | | | | | |
|---|---|---------------|---------------|---------------|---------------|---------------|-----------|---------------|-----------------|
| | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | Contiguous U.S. |
| Weather, excluding lightning | -- | -- | 50.0% | 3.7% | -- | -- | -- | -- | 3.3% |
| Lightning | -- | -- | -- | 3.7% | -- | -- | -- | -- | 1.1% |
| Environmental | -- | -- | -- | -- | 13.3% | -- | -- | -- | 2.2% |
| Contamination | -- | -- | -- | 3.7% | -- | -- | -- | -- | 1.1% |
| Foreign Interference | -- | -- | -- | -- | -- | -- | -- | 3.0% | 1.1% |
| Fire | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Vandalism, Terrorism, or Malicious Acts | -- | -- | -- | -- | 13.3% | -- | -- | -- | 2.2% |
| Failed AC Substation Equipment | -- | -- | 50.0% | 48.2% | 53.3% | 50.0% | -- | 21.2% | 33.7% |
| Failed AC/DC Terminal Equipment | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Failed Protection System Equipment | 50.0% | -- | -- | 11.1% | 6.7% | -- | -- | 15.2% | 10.9% |
| Failed AC Circuit Equipment | -- | -- | -- | 3.7% | 6.7% | -- | -- | 6.1% | 4.4% |
| Failed DC Circuit Equipment | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Vegetation | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Power System Condition | -- | -- | -- | -- | -- | -- | -- | 9.1% | 3.3% |
| Human Error | 50.0% | 77.8% | -- | 14.8% | 6.7% | -- | -- | 18.2% | 20.7% |
| Unknown | -- | 22.2% | -- | 3.7% | -- | -- | -- | 18.2% | 9.8% |
| Other | -- | -- | -- | 3.7% | -- | 50.0% | -- | 9.1% | 5.4% |
| TOTAL | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | -- | 100.0% | 100.0% |

Notes:

Detailed information on the Transmission Availability Data System outage causes is available at:

<http://www.nerc.com/docs/pc/tadswg/Appendix%207%2020101202a%20clean.pdf>

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply Program Report."

Table 8.13.B. U.S. Transformer Sustained Automatic Outage Counts and

Hours by Cause Code and by NERC Region, 2013 (Page 2)

| Sustained Outage Causes | Transformer Outage Hours | | | | | | | | | Contiguous U.S. |
|---|--------------------------|-----------|--------------|---------------|------------|------------|-----------|--------------|-----------|-----------------|
| | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | | |
| Weather, excluding lightning | -- | -- | 9 | 4 | -- | -- | -- | -- | -- | 14 |
| Lightning | -- | -- | -- | 64 | -- | -- | -- | -- | -- | 64 |
| Environmental | -- | -- | -- | -- | 36 | -- | -- | -- | -- | 36 |
| Contamination | -- | -- | -- | 4 | -- | -- | -- | -- | -- | 4 |
| Foreign Interference | -- | -- | -- | -- | -- | -- | -- | 8 | -- | 8 |
| Fire | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Vandalism, Terrorism, or Malicious Acts | -- | -- | -- | -- | 118 | -- | -- | -- | -- | 118 |
| Failed AC Substation Equipment | -- | -- | 6,647 | 11,370 | 614 | 190 | -- | 1,121 | -- | 19,942 |
| Failed AC/DC Terminal Equipment | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Failed Protection System Equipment | 0 | -- | -- | 5 | 49 | -- | -- | 4 | -- | 58 |
| Failed AC Circuit Equipment | -- | -- | -- | 13 | 6 | -- | -- | 81 | -- | 99 |
| Failed DC Circuit Equipment | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Vegetation | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Power System Condition | -- | -- | -- | -- | -- | -- | -- | 27 | -- | 27 |
| Human Error | 1 | 14 | -- | 6 | 1 | -- | -- | 2 | -- | 24 |
| Unknown | -- | 1 | -- | 14 | -- | -- | -- | 77 | -- | 92 |
| Other | -- | -- | -- | 15 | -- | 89 | -- | 0 | -- | 104 |
| TOTAL | 1 | 15 | 6,657 | 11,495 | 824 | 279 | -- | 1,322 | -- | 20,592 |

| OUTAGE_CAUSE | Percentage of Total Transformer Outage Hours | | | | | | | | | Contiguous U.S. |
|---|--|---------------|---------------|---------------|---------------|---------------|-----------|---------------|-----------|-----------------|
| | FRCC | MRO | NPCC | RFC | SERC | SPP | TRE | WECC | | |
| Weather, excluding lightning | -- | -- | 0.1% | 0.0% | -- | -- | -- | -- | -- | 0.1% |
| Lightning | -- | -- | -- | 0.6% | -- | -- | -- | -- | -- | 0.3% |
| Environmental | -- | -- | -- | -- | 4.3% | -- | -- | -- | -- | 0.2% |
| Contamination | -- | -- | -- | 0.0% | -- | -- | -- | -- | -- | 0.0% |
| Foreign Interference | -- | -- | -- | -- | -- | -- | -- | 0.6% | -- | 0.0% |
| Fire | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Vandalism, Terrorism, or Malicious Acts | -- | -- | -- | -- | 14.4% | -- | -- | -- | -- | 0.6% |
| Failed AC Substation Equipment | -- | -- | 99.9% | 98.9% | 74.5% | 68.0% | -- | 84.9% | -- | 96.8% |
| Failed AC/DC Terminal Equipment | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Failed Protection System Equipment | 6.4% | -- | -- | 0.0% | 6.0% | -- | -- | 0.3% | -- | 0.3% |
| Failed AC Circuit Equipment | -- | -- | -- | 0.1% | 0.7% | -- | -- | 6.1% | -- | 0.5% |
| Failed DC Circuit Equipment | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Vegetation | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Power System Condition | -- | -- | -- | -- | -- | -- | -- | 2.1% | -- | 0.1% |
| Human Error | 93.6% | 95.2% | -- | 0.1% | 0.1% | -- | -- | 0.2% | -- | 0.1% |
| Unknown | -- | 4.8% | -- | 0.1% | -- | -- | -- | 5.9% | -- | 0.5% |
| Other | -- | -- | -- | 0.1% | -- | 32.1% | -- | 0.0% | -- | 0.5% |
| TOTAL | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | -- | 100.0% | -- | 100.0% |

Notes:

Detailed information on the Transmission Availability Data System outage causes is available at:

<http://www.nerc.com/docs/pc/tadswg/Appendix%207%2020101202a%20clean.pdf>

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply Program Report."

Chapter 9

Environmental Data

Table 9.1. Emissions from Energy Consumption at Conventional Power Plants and Combined-Heat-and-Power Plants 2003 through 2013 (Thousand Metric Tons)

| Year | Carbon Dioxide (CO ₂) | Sulfur Dioxide (SO ₂) | Nitrogen Oxides (NO _x) |
|------|-----------------------------------|-----------------------------------|------------------------------------|
| 2003 | 2,445,094 | 10,646 | 4,532 |
| 2004 | 2,486,982 | 10,309 | 4,143 |
| 2005 | 2,543,838 | 10,340 | 3,961 |
| 2006 | 2,488,918 | 9,524 | 3,799 |
| 2007 | 2,547,032 | 9,042 | 3,650 |
| 2008 | 2,484,012 | 7,830 | 3,330 |
| 2009 | 2,269,508 | 5,970 | 2,395 |
| 2010 | 2,388,596 | 5,400 | 2,491 |
| 2011 | 2,287,071 | 4,845 | 2,406 |
| 2012 | 2,156,875 | 3,704 | 2,148 |
| 2013 | 2,172,355 | 3,609 | 2,188 |

Notes:

The emissions data presented include total emissions from both electricity generation and the production of useful thermal output.

See Appendix A, Technical Notes, for a description of the sources and methodology used to develop the emissions estimates.

Source: Calculations made by the Office of Electricity, Renewables, and Uranium Statistics, U.S. Energy Information Administration.

Table 9.2. Quantity and Net Summer Capacity of Operable Environmental Equipment, 2003 - 2013

| Year | Flue Gas Desulfurization Systems | | Electrostatic Precipitators | | Baghouses | | Select Catalytic and Non-Catalytic Reduction Systems | | Activated Carbon Injection Systems | | Direct Sorbent Injection Systems | |
|------|----------------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------|-------------------------------------|--|-------------------------------------|------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|
| | Quantity | Associated Net Summer Capacity (MW) | Quantity | Associated Net Summer Capacity (MW) | Quantity | Associated Net Summer Capacity (MW) | Quantity | Associated Net Summer Capacity (MW) | Quantity | Associated Net Summer Capacity (MW) | Quantity | Associated Net Summer Capacity (MW) |
| 2003 | 532 | 110,437 | 1,564 | 325,721 | 523 | 54,454 | 867 | 174,357 | 27 | 1,254 | 23 | 1,606 |
| 2004 | 535 | 112,874 | 1,554 | 324,690 | 527 | 57,745 | 969 | 212,664 | 123 | 4,435 | 23 | 1,606 |
| 2005 | 539 | 112,372 | 1,541 | 324,489 | 527 | 57,948 | 1,049 | 232,146 | 128 | 4,693 | 23 | 1,606 |
| 2006 | 538 | 115,698 | 1,491 | 316,068 | 538 | 60,556 | 1,126 | 250,855 | 139 | 6,859 | 31 | 2,175 |
| 2007 | 565 | 129,555 | 1,491 | 315,956 | 555 | 65,587 | 1,161 | 259,783 | 141 | 7,735 | 32 | 2,249 |
| 2008 | 611 | 149,557 | 1,466 | 315,016 | 575 | 68,357 | 1,209 | 270,859 | 169 | 17,391 | 35 | 2,348 |
| 2009 | 651 | 172,812 | 1,452 | 312,655 | 597 | 73,787 | 1,272 | 289,631 | 227 | 39,546 | 35 | 2,349 |
| 2010 | 690 | 199,090 | 1,406 | 308,784 | 608 | 83,073 | 1,311 | 305,323 | 262 | 54,183 | 34 | 2,707 |
| 2011 | 703 | 209,600 | 1,359 | 305,107 | 632 | 98,422 | 1,359 | 319,876 | 274 | 59,057 | 43 | 2,962 |
| 2012 | 698 | 217,007 | 1,283 | 296,497 | 630 | 101,542 | 1,399 | 333,336 | 287 | 63,709 | 53 | 4,638 |
| 2013 | 673 | 219,001 | 1,199 | 287,121 | 632 | 104,077 | 1,393 | 336,768 | 256 | 59,974 | 64 | 6,920 |

Note:

'Associated Net Summer Capacity' is defined as the net summer capacity of the generators that are associated with the operation of this environmental equipment. In some cases respondents have reported equipment late. Counts and capacity may have changed from prior publications of this table because of late reporting. Data for 2005 and earlier are based primarily on Form EIA-767 data. In 2006, the Form EIA-767 was suspended. Data for 2007 and later are based primarily on Form EIA-860 data. All data for 2006 are inferred based on submissions from subsequent years. Beginning in 2013 environmental data was collected at a more detailed level, which increases its accuracy and in some cases reduces the equipment counts.

Source: U.S. Energy Information Administration, Forms EIA-767, "Steam-Electric Plant Operation and Design Report" and Form EIA-860, "Annual Electric Generator Report."

Table 9.3. Quantity and Net Summer Capacity of Operable Cooling Systems, by Energy Source and Cooling System Type, 2003 - 2013

| Energy Source | Once-Through Cooling Systems | | Recirculating Cooling Systems | | Cooling Ponds | | Dry Cooling Systems | | Hybrid Wet and Dry Cooling Systems | | Other Cooling System Types | |
|---------------|------------------------------|-------------------------------------|-------------------------------|-------------------------------------|---------------|-------------------------------------|---------------------|-------------------------------------|------------------------------------|-------------------------------------|----------------------------|-------------------------------------|
| | Quantity | Associated Net Summer Capacity (MW) | Quantity | Associated Net Summer Capacity (MW) | Quantity | Associated Net Summer Capacity (MW) | Quantity | Associated Net Summer Capacity (MW) | Quantity | Associated Net Summer Capacity (MW) | Quantity | Associated Net Summer Capacity (MW) |
| 2003 | | | | | | | | | | | | |
| Coal | 489 | 136,510 | 342 | 151,899 | 102 | 49,385 | -- | -- | -- | -- | 15 | 6,136 |
| Natural Gas | 211 | 52,574 | 394 | 68,046 | 77 | 30,433 | 27 | 6,877 | -- | -- | 7 | 1,911 |
| Petroleum | 101 | 25,061 | 22 | 6,838 | 4 | 3,610 | -- | -- | -- | -- | 2 | 2,004 |
| Other | 16 | 1,079 | 24 | 1,919 | -- | -- | 1 | 26 | -- | -- | 4 | 420 |
| 2004 | | | | | | | | | | | | |
| Coal | 479 | 134,761 | 350 | 153,804 | 103 | 50,067 | -- | -- | -- | -- | 14 | 5,911 |
| Natural Gas | 212 | 53,260 | 412 | 74,156 | 72 | 27,937 | 32 | 7,768 | 1 | 111 | 7 | 1,911 |
| Petroleum | 89 | 23,811 | 22 | 6,838 | 3 | 3,220 | -- | -- | -- | -- | 2 | 2,004 |
| Other | 15 | 1,029 | 25 | 2,027 | -- | -- | 2 | 100 | -- | -- | 4 | 424 |
| 2005 | | | | | | | | | | | | |
| Coal | 473 | 134,241 | 348 | 153,451 | 103 | 50,113 | -- | -- | -- | -- | 14 | 6,002 |
| Natural Gas | 210 | 53,669 | 415 | 77,708 | 65 | 27,571 | 32 | 7,768 | 2 | 272 | 7 | 2,071 |
| Petroleum | 85 | 22,842 | 23 | 6,852 | 3 | 3,174 | -- | -- | -- | -- | 2 | 2,004 |
| Other | 15 | 1,029 | 21 | 1,981 | -- | -- | 2 | 100 | -- | -- | 4 | 424 |
| 2006 | | | | | | | | | | | | |
| Coal | 464 | 132,638 | 349 | 153,824 | 101 | 49,609 | -- | -- | -- | -- | 13 | 5,828 |
| Natural Gas | 203 | 51,742 | 411 | 78,258 | 67 | 28,323 | 34 | 8,244 | 2 | 272 | 9 | 2,504 |
| Petroleum | 81 | 22,259 | 23 | 6,824 | 3 | 2,513 | -- | -- | -- | -- | 2 | 2,017 |
| Other | 16 | 1,072 | 28 | 2,462 | -- | -- | 2 | 100 | -- | -- | 4 | 424 |
| 2007 | | | | | | | | | | | | |
| Coal | 459 | 131,763 | 351 | 155,178 | 101 | 49,609 | -- | -- | -- | -- | 13 | 5,828 |
| Natural Gas | 203 | 51,906 | 417 | 79,193 | 66 | 27,563 | 34 | 8,244 | 2 | 272 | 9 | 2,668 |
| Petroleum | 81 | 22,259 | 23 | 6,824 | 3 | 2,513 | -- | -- | -- | -- | 2 | 2,017 |
| Other | 16 | 1,072 | 28 | 2,522 | -- | -- | 2 | 100 | -- | -- | 4 | 424 |
| 2008 | | | | | | | | | | | | |
| Coal | 454 | 131,980 | 356 | 157,262 | 100 | 48,787 | -- | -- | -- | -- | 8 | 3,912 |
| Natural Gas | 199 | 51,228 | 418 | 80,065 | 59 | 25,261 | 35 | 8,507 | 2 | 272 | 10 | 2,957 |
| Petroleum | 80 | 22,299 | 20 | 6,614 | 3 | 4,104 | -- | -- | -- | -- | 2 | 2,022 |
| Other | 16 | 1,162 | 25 | 2,251 | -- | -- | 2 | 100 | -- | -- | 4 | 424 |
| 2009 | | | | | | | | | | | | |
| Coal | 447 | 129,505 | 364 | 160,205 | 100 | 47,960 | 1 | 335 | -- | -- | 6 | 2,582 |
| Natural Gas | 195 | 49,541 | 422 | 81,664 | 57 | 23,022 | 44 | 10,636 | 3 | 482 | 3 | 1,175 |
| Petroleum | 77 | 21,756 | 18 | 6,575 | 3 | 4,104 | -- | -- | -- | -- | 2 | 2,022 |
| Other | 16 | 1,160 | 25 | 2,316 | 2 | 344 | 4 | 356 | -- | -- | 1 | 33 |
| 2010 | | | | | | | | | | | | |
| Coal | 438 | 129,557 | 364 | 161,429 | 101 | 48,929 | 2 | 435 | 1 | 766 | 7 | 2,632 |
| Natural Gas | 182 | 49,154 | 417 | 80,826 | 57 | 22,746 | 47 | 11,375 | 3 | 542 | 3 | 1,172 |
| Nuclear | 48 | 50,867 | 39 | 43,363 | 13 | 14,996 | -- | -- | -- | -- | 7 | 7,901 |
| Petroleum | 76 | 20,878 | 17 | 5,513 | 3 | 4,064 | -- | -- | -- | -- | 2 | 2,022 |
| Other | 17 | 1,190 | 26 | 2,546 | 2 | 344 | 4 | 356 | -- | -- | 2 | 63 |
| 2011 | | | | | | | | | | | | |
| Coal | 416 | 127,415 | 362 | 164,435 | 104 | 50,476 | 3 | 840 | 1 | 766 | 7 | 2,636 |
| Natural Gas | 177 | 48,431 | 432 | 84,874 | 58 | 21,944 | 52 | 12,242 | 3 | 542 | 2 | 870 |
| Nuclear | 48 | 51,044 | 39 | 43,422 | 13 | 15,011 | -- | -- | -- | -- | 8 | 8,890 |
| Petroleum | 66 | 17,099 | 17 | 5,443 | 4 | 4,692 | -- | -- | -- | -- | 2 | 2,022 |
| Other | 18 | 1,318 | 20 | 1,641 | -- | -- | 1 | 26 | -- | -- | 2 | 63 |
| 2012 | | | | | | | | | | | | |
| Coal | 373 | 124,592 | 359 | 165,391 | 88 | 39,933 | 4 | 1,412 | 1 | 766 | 13 | 6,463 |
| Natural Gas | 173 | 52,090 | 436 | 89,618 | 54 | 18,533 | 54 | 12,584 | 4 | 637 | 2 | 499 |
| Nuclear | 48 | 51,248 | 38 | 39,561 | 13 | 15,105 | -- | -- | -- | -- | 8 | 8,900 |
| Petroleum | 59 | 14,971 | 17 | 4,046 | 4 | 4,692 | -- | -- | -- | -- | 2 | 2,022 |
| Other | 15 | 1,258 | 27 | 2,167 | -- | -- | 1 | 53 | -- | -- | 2 | 63 |
| 2013 | | | | | | | | | | | | |
| Coal | 346 | 120,303 | 351 | 163,302 | 78 | 39,482 | 4 | 1,422 | 1 | 750 | 10 | 4,385 |
| Natural Gas | 162 | 52,015 | 422 | 86,590 | 57 | 18,843 | 56 | 12,918 | 4 | 637 | 4 | 2,481 |
| Nuclear | 44 | 50,266 | 38 | 40,013 | 13 | 15,251 | -- | -- | -- | -- | 8 | 11,181 |
| Petroleum | 44 | 11,439 | 11 | 3,481 | 4 | 4,692 | -- | -- | -- | -- | -- | -- |
| Solar Thermal | -- | -- | 2 | 591 | -- | -- | 3 | 391 | -- | -- | -- | -- |
| Other | 15 | 1,301 | 31 | 2,561 | -- | -- | -- | -- | -- | -- | 2 | 242 |

Notes:

'Associated Net Summer Capacity' is defined as the net summer capacity of the generators that are associated with the operation of this environmental equipment. In some cases respondents have reported equipment late. Counts and capacity may have changed from prior publications of this table because of late reporting. Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; coal synfuel and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases. Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases. Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases. EIA did not collect cooling system data for nuclear units before 2010. Other Energy Sources consists of wood and wood waste products, biomass, blast furnace gas and other gases. Data for 2005 and earlier are based primarily on Form EIA-767 data. In 2006, the Form EIA-767 was suspended. Data for 2007 and later are based primarily on Form EIA-860 data. All data for 2006 are inferred based on submissions from subsequent years.

Source: U.S. Energy Information Administration, Forms EIA-767, "Steam-Electric Plant Operation and Design Report" and Form EIA-860, "Annual Electric Generator Report."

Table 9.4. Average Costs of Existing Flue Gas Desulfurization Units

Operating in Electric Power Sector, 2003 - 2013

| Year | Average Operation and Maintenance Costs (Dollars per Megawatthour) | Average Installed Capital Costs (Dollars per Kilowatt) |
|-------------|---|---|
| 2003 | 1.23 | 81.98 |
| 2004 | 1.25 | 43.25 |
| 2005 | 1.37 | 142.67 |
| 2006 | -- | 149.57 |
| 2007 | 1.26 | 240.66 |
| 2008 | 1.44 | 257.50 |
| 2009 | 1.44 | 355.25 |
| 2010 | 1.52 | 353.65 |
| 2011 | 1.79 | 396.90 |
| 2012 | 1.87 | 260.28 |
| 2013 | 1.74 | 237.58 |

Notes: Average Installed Capital Costs reflect units which began operating in the specified year. Prior publications of this table reported the average installation cost of all units that were operating during each year; the new metric is intended to portray a more accurate understanding of how installation costs have changed over time.

Years in which Operation and Maintenance Costs were not collected display a '--' to indicate data was not collected.

Commercial and industrial facilities had significantly different costs than units used in the electric power sector. In order to give a more accurate reflection of the electric power sector, commercial and industrial facilities have been excluded from this publication table; prior publications of this table included commercial and industrial facilities when calculating average costs.

Sources:

U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report'

U.S. Energy Information Administration, Form EIA-923, 'Power Plant Operations Report'

U.S. Energy Information Administration, Form EIA-767, 'Steam-Electric Plant Operations and Design Report'

Table 9.5. Emissions from Energy Consumption at Conventional Power Plants and Combined-Heat-and-Power Plants, by State, 2012 and 2013 (Thousand Metric Tons)

| Census Division and State | Carbon Dioxide (CO2) | | Sulfur Dioxide (SO2) | | Nitrogen Oxides (NOx) | |
|---------------------------|----------------------|-----------|----------------------|-----------|-----------------------|-----------|
| | Year 2013 | Year 2012 | Year 2013 | Year 2012 | Year 2013 | Year 2012 |
| New England | 33,437 | 34,766 | 31 | 33 | 37 | 39 |
| Connecticut | 8,726 | 8,987 | 3 | 7 | 9 | 12 |
| Maine | 3,675 | 3,722 | 12 | 8 | 9 | 7 |
| Massachusetts | 14,735 | 14,346 | 11 | 15 | 14 | 14 |
| New Hampshire | 3,447 | 4,295 | 3 | 2 | 5 | 4 |
| Rhode Island | 2,838 | 3,403 | 1 | 0 | 1 | 2 |
| Vermont | 15 | 12 | 0 | 0 | 1 | 1 |
| Middle Atlantic | 157,974 | 161,786 | 282 | 275 | 192 | 187 |
| New Jersey | 15,789 | 16,120 | 3 | 4 | 14 | 14 |
| New York | 33,456 | 35,669 | 28 | 31 | 41 | 40 |
| Pennsylvania | 108,729 | 109,997 | 251 | 240 | 137 | 133 |
| East North Central | 414,052 | 398,780 | 1,061 | 1,099 | 379 | 379 |
| Illinois | 97,812 | 94,411 | 185 | 172 | 57 | 61 |
| Indiana | 98,895 | 99,773 | 248 | 260 | 110 | 107 |
| Michigan | 67,193 | 67,877 | 215 | 215 | 78 | 81 |
| Ohio | 102,466 | 95,523 | 315 | 355 | 93 | 91 |
| Wisconsin | 47,686 | 41,196 | 98 | 98 | 40 | 39 |
| West North Central | 241,445 | 237,669 | 426 | 443 | 256 | 262 |
| Iowa | 39,175 | 41,267 | 97 | 96 | 41 | 42 |
| Kansas | 33,125 | 31,693 | 27 | 30 | 28 | 33 |
| Minnesota | 29,255 | 28,494 | 32 | 33 | 34 | 36 |
| Missouri | 78,344 | 75,545 | 143 | 136 | 71 | 66 |
| Nebraska | 28,043 | 26,467 | 61 | 58 | 29 | 29 |
| North Dakota | 30,274 | 30,934 | 52 | 79 | 44 | 46 |
| South Dakota | 3,228 | 3,269 | 14 | 12 | 10 | 11 |
| South Atlantic | 378,260 | 384,603 | 514 | 570 | 317 | 318 |
| Delaware | 4,722 | 4,981 | 2 | 2 | 2 | 3 |
| District of Columbia | 49 | 66 | 0 | 0 | 0 | 0 |
| Florida | 108,431 | 111,236 | 107 | 101 | 80 | 84 |
| Georgia | 56,812 | 59,035 | 112 | 149 | 50 | 50 |
| Maryland | 18,950 | 20,697 | 38 | 40 | 20 | 22 |
| North Carolina | 56,940 | 57,924 | 65 | 74 | 57 | 53 |
| South Carolina | 28,809 | 34,238 | 43 | 65 | 17 | 22 |
| Virginia | 34,686 | 29,223 | 62 | 56 | 36 | 36 |
| West Virginia | 68,862 | 67,203 | 85 | 83 | 55 | 48 |
| East South Central | 213,041 | 220,815 | 462 | 450 | 174 | 175 |
| Alabama | 66,986 | 69,107 | 131 | 148 | 52 | 51 |
| Kentucky | 85,304 | 85,683 | 173 | 171 | 79 | 75 |
| Mississippi | 22,633 | 24,285 | 80 | 43 | 22 | 23 |
| Tennessee | 38,118 | 41,741 | 78 | 88 | 21 | 25 |
| West South Central | 399,352 | 399,292 | 613 | 616 | 375 | 370 |
| Arkansas | 37,346 | 36,234 | 81 | 84 | 42 | 38 |
| Louisiana | 58,274 | 60,182 | 111 | 108 | 75 | 75 |
| Oklahoma | 46,268 | 49,186 | 73 | 74 | 52 | 63 |
| Texas | 257,465 | 253,689 | 348 | 350 | 207 | 194 |
| Mountain | 244,232 | 233,511 | 168 | 161 | 301 | 277 |
| Arizona | 55,342 | 52,350 | 22 | 19 | 54 | 46 |
| Colorado | 39,387 | 39,926 | 36 | 39 | 45 | 45 |
| Idaho | 1,942 | 1,172 | 6 | 5 | 7 | 4 |
| Montana | 16,951 | 16,024 | 15 | 15 | 20 | 16 |
| Nevada | 15,690 | 14,929 | 7 | 4 | 15 | 12 |
| New Mexico | 28,535 | 29,163 | 16 | 15 | 54 | 55 |
| Utah | 35,699 | 32,484 | 21 | 20 | 57 | 49 |
| Wyoming | 50,687 | 47,463 | 45 | 44 | 50 | 49 |
| Pacific Contiguous | 79,366 | 73,724 | 30 | 39 | 117 | 105 |
| California | 57,323 | 59,369 | 2 | 6 | 88 | 84 |
| Oregon | 9,500 | 7,365 | 16 | 13 | 13 | 9 |
| Washington | 12,543 | 6,990 | 12 | 20 | 16 | 12 |
| Pacific Noncontiguous | 11,196 | 11,930 | 23 | 17 | 39 | 36 |
| Alaska | 3,768 | 4,305 | 4 | 3 | 16 | 17 |
| Hawaii | 7,428 | 7,625 | 19 | 15 | 23 | 19 |
| U.S. Total | 2,172,355 | 2,156,875 | 3,609 | 3,704 | 2,188 | 2,148 |

Notes:

The emissions data presented include total emissions from both electricity generation and the production of useful thermal output.

See Appendix A, Technical Notes, for a description of the sources and methodology used to develop the emissions estimates. Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Source: Calculations made by the Office of Electricity, Renewables, and Uranium Statistics, U.S. Energy Information

Chapter 10

Demand-Side Management and Advanced Metering

Table 10.1. Demand-Side Management Program Annual Effects by Program Category, 2003 through 2012 (Table Discontinued)

| Year | Energy Efficiency | | Load Management | | | Total | |
|------|-------------------------------|---------------------------------|-------------------------------|------------------------------------|---------------------------------|-------------------------------|---------------------------------|
| | Energy Savings (Thousand MWh) | Actual Peak Load Reduction (MW) | Energy Savings (Thousand MWh) | Potential Peak Load Reduction (MW) | Actual Peak Load Reduction (MW) | Energy Savings (Thousand MWh) | Actual Peak Load Reduction (MW) |
| 2003 | 48,254 | 13,585 | 1,935 | 25,261 | 9,298 | 50,189 | 22,883 |
| 2004 | 52,663 | 14,272 | 1,966 | 20,997 | 9,263 | 54,629 | 23,535 |
| 2005 | 59,000 | 15,394 | 930 | 21,259 | 10,341 | 59,930 | 25,735 |
| 2006 | 63,076 | 16,006 | 790 | 21,254 | 11,268 | 63,866 | 27,274 |
| 2007 | 67,278 | 17,773 | 1,859 | 23,091 | 12,545 | 69,137 | 30,318 |
| 2008 | 74,871 | 19,708 | 1,822 | 26,318 | 12,064 | 76,693 | 31,772 |
| 2009 | 76,912 | 19,761 | 1,027 | 26,310 | 11,972 | 77,939 | 31,732 |
| 2010 | 86,914 | 20,828 | 447 | 26,100 | 12,536 | 87,361 | 33,364 |
| 2011 | 120,659 | 26,314 | 556 | 26,596 | 12,126 | 121,214 | 38,439 |
| 2012 | 138,525 | 28,924 | 712 | 28,503 | 13,200 | 139,237 | 42,124 |

2012 was the last year this data was collected.

Previously, annual effects were reported for large respondents only. Now the annual effects include large and small respondents, combined.

Non-Utility DSM Administrators are included in the 2011 data. See technical notes for list.

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

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

Table 10.2. Demand-Side Management Program Annual Effects by Program

Category, by Sector, 2003 through 2012 (Table Discontinued)

| Year | Residential | Commercial | Industrial | Transportation | Total |
|---|-------------|------------|------------|----------------|---------|
| Energy Efficiency - Energy Savings (Thousand MWh) | | | | | |
| 2003 | 12,914 | 24,758 | 10,031 | 551 | 48,254 |
| 2004 | 17,185 | 24,290 | 11,137 | 50 | 52,663 |
| 2005 | 18,894 | 28,073 | 11,986 | 47 | 59,000 |
| 2006 | 21,150 | 28,720 | 13,155 | 50 | 63,076 |
| 2007 | 22,772 | 30,359 | 14,038 | 108 | 67,278 |
| 2008 | 25,396 | 34,634 | 14,766 | 75 | 74,871 |
| 2009 | 27,395 | 34,831 | 14,610 | 76 | 76,912 |
| 2010 | 32,150 | 37,416 | 17,259 | 89 | 86,914 |
| 2011 | 46,790 | 50,732 | 23,061 | 76 | 120,659 |
| 2012 | 54,516 | 58,894 | 25,023 | 92 | 138,525 |
| Energy Efficiency - Actual Peak Load Reduction (MW) | | | | | |
| 2003 | 5,909 | 4,911 | 2,671 | 94 | 13,585 |
| 2004 | 5,868 | 5,541 | 2,858 | 5 | 14,272 |
| 2005 | 6,057 | 6,395 | 2,935 | 7 | 15,394 |
| 2006 | 6,900 | 6,067 | 3,032 | 7 | 16,006 |
| 2007 | 8,275 | 6,241 | 3,250 | 7 | 17,773 |
| 2008 | 8,764 | 7,838 | 2,991 | 114 | 19,708 |
| 2009 | 8,724 | 7,954 | 3,074 | 9 | 19,761 |
| 2010 | 9,404 | 8,046 | 3,368 | 10 | 20,828 |
| 2011 | 11,391 | 10,422 | 4,490 | 11 | 26,314 |
| 2012 | 12,821 | 11,743 | 4,348 | 12 | 28,924 |
| Load Management - Energy Savings (Thousand MWh) | | | | | |
| 2003 | 559 | 335 | 1,041 | -- | 1,935 |
| 2004 | 578 | 334 | 1,055 | -- | 1,966 |
| 2005 | 408 | 383 | 138 | -- | 930 |
| 2006 | 321 | 331 | 138 | 1 | 790 |
| 2007 | 953 | 463 | 442 | -- | 1,859 |
| 2008 | 1,151 | 239 | 431 | -- | 1,822 |
| 2009 | 436 | 197 | 394 | -- | 1,027 |
| 2010 | 215 | 113 | 118 | -- | 447 |
| 2011 | 237 | 194 | 125 | -- | 556 |
| 2012 | 257 | 368 | 87 | -- | 712 |
| Load Management - Potential Peak Load Reduction (MW) | | | | | |
| 2003 | 6,618 | 4,033 | 14,599 | 11 | 25,261 |
| 2004 | 6,112 | 4,082 | 10,794 | 9 | 20,997 |
| 2005 | 6,075 | 3,832 | 11,297 | 55 | 21,259 |
| 2006 | 6,176 | 3,957 | 11,064 | 57 | 21,254 |
| 2007 | 7,022 | 3,984 | 12,030 | 55 | 23,091 |
| 2008 | 8,097 | 6,029 | 12,137 | 55 | 26,318 |
| 2009 | 7,308 | 6,460 | 12,462 | 81 | 26,310 |
| 2010 | 7,998 | 6,080 | 11,750 | 272 | 26,100 |
| 2011 | 7,882 | 6,023 | 12,380 | 311 | 26,596 |
| 2012 | 8,600 | 6,462 | 13,261 | 180 | 28,503 |
| Load Management - Actual Peak Load Reduction (MW) | | | | | |
| 2003 | 3,524 | 1,864 | 3,899 | 11 | 9,298 |
| 2004 | 3,014 | 1,652 | 4,588 | 9 | 9,263 |
| 2005 | 3,407 | 1,544 | 5,388 | 2 | 10,341 |
| 2006 | 3,863 | 1,730 | 5,643 | 32 | 11,268 |
| 2007 | 4,949 | 1,837 | 5,749 | 10 | 12,545 |
| 2008 | 4,158 | 3,270 | 4,625 | 12 | 12,064 |
| 2009 | 3,899 | 3,464 | 4,606 | 3 | 11,972 |
| 2010 | 4,726 | 2,854 | 4,819 | 137 | 12,536 |
| 2011 | 4,105 | 2,808 | 5,108 | 105 | 12,126 |
| 2012 | 4,152 | 3,208 | 5,732 | 108 | 13,200 |

2012 was the last year this data was collected.

Transportation data is not available before 2003.

Previously, annual data included only large respondents. Now it includes large and small respondents, combined.

Non-Utility DSM Administrators are included in the 2011 data. See technical notes for list.

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

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

Table 10.3. Demand-Side Management Program Incremental Effects by Program Category, 2003 through 2012 (Table Discontinued)

| Year | Energy Efficiency | | Load Management | | | Total | |
|------|-------------------------------|---------------------------------|-------------------------------|------------------------------------|---------------------------------|-------------------------------|---------------------------------|
| | Energy Savings (Thousand MWh) | Actual Peak Load Reduction (MW) | Energy Savings (Thousand MWh) | Potential Peak Load Reduction (MW) | Actual Peak Load Reduction (MW) | Energy Savings (Thousand MWh) | Actual Peak Load Reduction (MW) |
| 2003 | 2,948 | 1,035 | 33 | 2,112 | 1,165 | 2,981 | 2,200 |
| 2004 | 4,532 | 1,727 | 36 | 3,064 | 1,163 | 4,569 | 2,890 |
| 2005 | 5,879 | 1,705 | 137 | 2,223 | 1,162 | 6,016 | 2,867 |
| 2006 | 5,394 | 1,268 | 99 | 2,817 | 1,690 | 5,492 | 2,958 |
| 2007 | 7,680 | 1,998 | 137 | 4,765 | 2,392 | 7,817 | 4,390 |
| 2008 | 10,428 | 6,327 | 168 | 7,253 | 3,292 | 10,596 | 9,619 |
| 2009 | 12,907 | 3,721 | 65 | 6,042 | 2,224 | 12,972 | 5,945 |
| 2010 | 13,592 | 3,215 | 46 | 5,234 | 2,709 | 13,639 | 5,923 |
| 2011 | 21,421 | 3,974 | 135 | 4,043 | 2,062 | 21,556 | 6,036 |
| 2012 | 21,478 | 3,764 | 41 | 5,357 | 2,671 | 21,520 | 6,435 |

2012 was the last year this data was collected.

Previously, large and small respondents were published separately, now they are combined.

Non-Utility DSM Administrators are included in the 2011 data. See technical notes for list.

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

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

Table 10.4. Demand-Side Management Program Incremental Effects by Program

Category, by Sector, 2003 through 2012 (Table Discontinued)

| Year | Residential | Commercial | Industrial | Transportation | Total |
|---|-------------|------------|------------|----------------|--------|
| Energy Efficiency - Energy Savings (Thousand MWh) | | | | | |
| 2003 | 855 | 1,352 | 729 | 12 | 2,948 |
| 2004 | 1,827 | 1,812 | 894 | -- | 4,532 |
| 2005 | 2,249 | 2,559 | 1,071 | -- | 5,879 |
| 2006 | 2,127 | 2,281 | 986 | -- | 5,394 |
| 2007 | 3,659 | 2,830 | 1,178 | 13 | 7,680 |
| 2008 | 4,568 | 4,383 | 1,477 | 1 | 10,428 |
| 2009 | 5,030 | 4,959 | 2,918 | 1 | 12,907 |
| 2010 | 6,492 | 5,325 | 1,771 | 5 | 13,592 |
| 2011 | 9,989 | 8,166 | 3,261 | 6 | 21,421 |
| 2012 | 9,531 | 8,924 | 3,019 | 4 | 21,478 |
| Energy Efficiency - Actual Peak Load Reduction (MW) | | | | | |
| 2003 | 511 | 351 | 171 | 2 | 1,035 |
| 2004 | 1,138 | 393 | 196 | -- | 1,727 |
| 2005 | 913 | 562 | 230 | -- | 1,705 |
| 2006 | 665 | 433 | 170 | -- | 1,268 |
| 2007 | 994 | 763 | 240 | 1 | 1,998 |
| 2008 | 4,543 | 1,168 | 614 | 1 | 6,327 |
| 2009 | 1,849 | 1,044 | 827 | 1 | 3,721 |
| 2010 | 1,378 | 1,053 | 783 | 1 | 3,215 |
| 2011 | 1,628 | 1,545 | 800 | 1 | 3,974 |
| 2012 | 1,775 | 1,562 | 426 | 1 | 3,764 |
| Load Management - Energy Savings (Thousand MWh) | | | | | |
| 2003 | 19 | 10 | 3 | -- | 33 |
| 2004 | 21 | 10 | 5 | -- | 36 |
| 2005 | 34 | 84 | 19 | -- | 137 |
| 2006 | 23 | 62 | 14 | -- | 99 |
| 2007 | 13 | 98 | 26 | -- | 137 |
| 2008 | 32 | 62 | 74 | -- | 168 |
| 2009 | 34 | 21 | 10 | -- | 65 |
| 2010 | 13 | 21 | 12 | -- | 46 |
| 2011 | 29 | 86 | 21 | -- | 135 |
| 2012 | 20 | 14 | 7 | -- | 41 |
| Load Management - Potential Peak Load Reduction (MW) | | | | | |
| 2003 | 357 | 324 | 1,412 | 19 | 2,112 |
| 2004 | 945 | 664 | 1,455 | -- | 3,064 |
| 2005 | 765 | 636 | 822 | -- | 2,223 |
| 2006 | 905 | 776 | 1,136 | -- | 2,817 |
| 2007 | 2,342 | 1,324 | 1,045 | 54 | 4,765 |
| 2008 | 3,013 | 2,156 | 2,083 | 1 | 7,253 |
| 2009 | 1,922 | 1,971 | 2,127 | 22 | 6,042 |
| 2010 | 1,976 | 1,171 | 2,087 | -- | 5,234 |
| 2011 | 1,324 | 1,327 | 1,392 | -- | 4,043 |
| 2012 | 1,369 | 1,155 | 2,833 | 1 | 5,357 |
| Load Management - Actual Peak Load Reduction (MW) | | | | | |
| 2003 | 217 | 235 | 703 | 10 | 1,165 |
| 2004 | 509 | 300 | 354 | -- | 1,163 |
| 2005 | 378 | 224 | 560 | -- | 1,162 |
| 2006 | 478 | 389 | 823 | -- | 1,690 |
| 2007 | 1,221 | 562 | 567 | 42 | 2,392 |
| 2008 | 1,179 | 1,445 | 667 | 1 | 3,292 |
| 2009 | 793 | 781 | 648 | 3 | 2,224 |
| 2010 | 666 | 948 | 1,095 | -- | 2,709 |
| 2011 | 817 | 619 | 625 | -- | 2,062 |
| 2012 | 686 | 737 | 1,248 | * | 2,671 |

2012 was the last year this data was collected.

Transportation data is not available before 2003.

Previously, large and small respondents were published separately, now they are combined.

Non-Utility DSM Administrators are included in the 2011 data. See technical notes for list.

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

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

Table 10.5. Demand-Side Management Program Direct and Indirect Costs,

2003 through 2012 (Thousand Dollars) (Table Discontinued)

| Year | Energy Efficiency | Load Management | Direct Cost | Indirect Cost | Total Cost |
|------|-------------------|-----------------|-------------|---------------|------------|
| 2003 | 807,403 | 352,137 | 1,159,540 | 137,670 | 1,340,686 |
| 2004 | 910,816 | 510,281 | 1,421,097 | 132,295 | 1,560,578 |
| 2005 | 1,180,576 | 622,287 | 1,802,863 | 127,925 | 1,939,115 |
| 2006 | 1,270,602 | 663,980 | 1,934,582 | 128,886 | 2,072,962 |
| 2007 | 1,677,969 | 700,362 | 2,378,331 | 160,326 | 2,604,711 |
| 2008 | 2,137,452 | 836,359 | 2,973,811 | 181,843 | 3,186,742 |
| 2009 | 2,221,480 | 944,261 | 3,165,741 | 394,193 | 3,607,076 |
| 2010 | 2,906,906 | 1,048,356 | 3,955,262 | 275,158 | 4,230,420 |
| 2011 | 4,002,672 | 1,213,102 | 5,215,774 | 328,622 | 5,544,396 |
| 2012 | 4,397,635 | 1,270,391 | 5,668,026 | 332,440 | 6,000,466 |

2012 was the last year this data was collected.

Direct Costs reflect electric utility costs incurred during the year that are identified with Energy Efficiency and Load Management. Total Costs are the sum of Direct and Indirect Costs.

Previously, this table included only large respondents. Now it includes large and small respondents, combined.

For the total cost data, prior to 2010, both large and small respondents reported total costs, however small respondents did not break out the costs into direct and indirect. The direct and indirect costs were reported for large respondents only. Therefore, prior to 2010 the total cost does not equal the sum of the direct and indirect costs.

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

Non-Utility DSM Administrators are included in the 2011 data. See technical notes for list.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10.6. Energy Efficiency
Category, by Sector, 2013**

| Year | Residential | Commercial | Industrial | Transportation | Total |
|--|-------------|------------|------------|----------------|------------|
| Incremental Annual Savings - Energy Savings (MWh) | | | | | |
| 2013 | 11,031,426 | 10,478,999 | 3,141,409 | 29,894 | 24,681,728 |
| Incremental Annual Savings - Peak Demand Savings (MW) | | | | | |
| 2013 | 6,814 | 11,320 | 1,484 | 5 | 19,622 |
| Incremental Costs - Customer Incentive (thousand dollars) | | | | | |
| 2013 | 1,252,225 | 1,274,421 | 346,256 | 5 | 2,872,906 |
| Incremental Costs - All Other Costs (thousand dollars) | | | | | |
| 2013 | 1,015,882 | 750,499 | 179,758 | 33 | 1,946,156 |

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10.7. Energy Efficiency - Life Cycle
Category, by Sector, 2013**

| Year | Residential | Commercial | Industrial | Transportation | Total |
|---|-------------|-------------|------------|----------------|-------------|
| Life Cycle Savings - Energy Savings (MWh) | | | | | |
| 2013 | 84,525,522 | 128,027,635 | 38,502,166 | 448,421 | 251,466,857 |
| Life Cycle Savings - Peak Demand Savings (MW) | | | | | |
| 2013 | 44,353 | 71,059 | 19,774 | 6 | 135,192 |
| Life Cycle Costs - Customer Incentive (thousand dollars) | | | | | |
| 2013 | 2,698,881 | 2,875,980 | 461,157 | 5 | 6,035,867 |
| Life Cycle Costs - All Other Costs (thousand dollars) | | | | | |
| 2013 | 2,135,019 | 1,627,658 | 234,977 | 33 | 3,997,670 |

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

Table 10.8. Demand Response - Yearly Energy and Demand Savings

Category, by Sector, 2013

| Year | Residential | Commercial | Industrial | Transportation | Total |
|------------------------------------|--------------------|-------------------|-------------------|-----------------------|--------------|
| Number of Customers Enrolled | | | | | |
| 2013 | 8,419,233 | 611,826 | 155,893 | 398 | 9,187,350 |
| Energy Savings (MWh) | | | | | |
| 2013 | 799,743 | 486,348 | 115,895 | 1 | 1,401,987 |
| Potential Peak Demand Savings (MW) | | | | | |
| 2013 | 7,003 | 5,124 | 14,800 | 168 | 27,095 |
| Actual Peak Demand Savings (MW) | | | | | |
| 2013 | 3,381 | 2,548 | 5,805 | 149 | 11,883 |

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

Table 10.9. Demand Response - Program Costs

Category, by Sector, 2013

| Year | Residential | Commercial | Industrial | Transportation | Total |
|--|--------------------|-------------------|-------------------|-----------------------|--------------|
| Customer Incentives (thousand dollars) | | | | | |
| 2013 | 398,598 | 286,057 | 421,208 | 6,919 | 1,112,782 |
| All Other Costs (thousand dollars) | | | | | |
| 2013 | 338,353 | 95,748 | 50,982 | 50 | 485,133 |

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10.10. Advanced Metering Count by Technology Type,
2007 through 2013**

| Year | Residential | Commercial | Industrial | Transportation | Total |
|---|-------------|------------|------------|----------------|------------|
| Automated Meter Reading (AMR) | | | | | |
| 2007 | 25,785,782 | 2,322,329 | 44,015 | 109 | 28,152,235 |
| 2008 | 36,425,943 | 3,529,985 | 77,122 | 13 | 40,033,063 |
| 2009 | 41,462,111 | 4,239,531 | 107,033 | 11 | 45,808,686 |
| 2010 | 43,913,225 | 4,611,877 | 159,315 | 626 | 48,685,043 |
| 2011 | 41,451,888 | 4,341,105 | 172,692 | 77 | 45,965,762 |
| 2012 | 43,455,437 | 4,691,018 | 185,862 | 125 | 48,330,822 |
| 2013 | 43,728,325 | 4,805,138 | 201,873 | 1,202 | 48,736,538 |
| Advanced Metering Infrastructure (AMI) | | | | | |
| 2007 | 2,202,222 | 262,159 | 9,106 | 2 | 2,473,489 |
| 2008 | 4,190,244 | 444,003 | 12,757 | 12 | 4,647,016 |
| 2009 | 8,712,297 | 876,419 | 22,675 | 10 | 9,611,401 |
| 2010 | 18,369,908 | 1,904,983 | 59,567 | 67 | 20,334,525 |
| 2011 | 33,453,548 | 3,682,159 | 154,659 | 7 | 37,290,373 |
| 2012 | 38,524,639 | 4,461,350 | 179,159 | 35 | 43,165,183 |
| 2013 | 46,083,727 | 5,597,147 | 242,783 | 845 | 51,924,502 |

Prior to 2010, the count was the number of customers, not number of meters.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." Form EIA-861S, "Annual Electric Power Industry Report (Short Form)."

Appendix

Technical Notes

This appendix describes how the U.S. Energy Information Administration collects, estimates, and reports electric power data in the Electric Power Annual.

Data Quality and Submission

The Electric Power Annual (EPA) is prepared by the Office of Electricity, Renewables, and Uranium Statistics (ERUS), U.S. Energy Information Administration (EIA), U.S. Department of Energy (DOE). ERUS performs routine reviews of the data collection respondent frames, survey forms, and reviews the quality of the data received.

Data are entered directly by respondents into the ERUS Internet Data Collection (IDC) system. A small number of hard copy forms are keyed into the system by ERUS personnel. All data are subject to review via interactive edits built into the IDC system, internal quality assurance reports, and review by ERUS subject matter experts. Questionable data values are verified through contacts with respondents, and survey non-respondents are identified and contacted.

IDC edits include both deterministic checks, in which records are checked for the presence of data in required fields, and statistical checks, in which the data are checked against a range of values based on historical data values and for logical or mathematical consistency with data elements reported in the survey. Discrepancies found in the data, as a result of these checks, must either be corrected by the respondent or the respondent must enter an explanation as to why the data are correct. If these explanations are unsatisfactory the respondent is contacted by EIA for clarification or corrected data.

Those respondents unable to use the electronic reporting method provide the data in hard copy, typically via fax and email. These data are manually entered into the computerized database and are subjected to the same data edits as those performed during e-filing by the respondent.

Reliability of Data

Annual survey data have non-sampling errors. Non-sampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases (i.e., non-response); (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data; and (6) other errors of collection, response, coverage, and estimation for missing data.

Although no direct measurement of the biases due to non-sampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes to minimize their influence.

Imputation: If the reported values appear to be in error and the data issue cannot be resolved with the respondent, or if the facility is a non-respondent, a regression methodology is used to impute for the facility. The regression methodology relies on other data to make estimates for erroneous or missing responses. The basis for the current methodology involves a 'borrowing of strength' technique for small domains.¹

Data Revision Procedure

The EPA presents the most current and complete data available to the EIA. The statistics may differ from those published previously in EIA publications due to corrections, revisions, or other adjustments to the data subsequent to its original release.

After data are disseminated as final, revisions will be considered if a correction would make a difference of 1 percent or greater at the national level. Revisions for differences that do not meet the 1 percent or greater threshold will be determined by the Office Director. In either case, the proposed revision will be subject to the EIA revision policy concerning how it affects other EIA products.

Sensitive Data (Formerly Identified as Data Confidentiality): Most of the data collected on the electric power surveys are not considered business sensitive. However, the data that are classified as sensitive are handled by ERUS consistent with EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45 Federal Register 59812 (1980)).

Rounding and Percent Change Calculations

Rounding Rules for Data: To round a number to n digits (decimal places), add one unit to the nth digit if the (n+1) digit is 5 or larger and keep the nth digit unchanged if the (n+1) digit is less than 5. The symbol for a number rounded to zero is (*).

Percent Change: The following formula is used to calculate percent changes:

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

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

Data Sources for Electric Power Annual

Data published in the EPA are compiled from forms filed annually or aggregated to an annual basis from monthly forms (see figure on EIA Electric Industry Data Collection in Appendix A). The respondents to these forms include electric utilities, other generators and sellers of electricity, and North American Electric Reliability Corporation (NERC) reliability entities. The EIA forms used are:

- Form EIA-411, "Coordinated Bulk Power Supply Program Report;"
- Form EIA-826, "Monthly Electric Utility Sales and Revenues with State Distributions Report;"
- Form EIA-860, "Annual Electric Generator Report;"
- Form EIA-861, "Annual Electric Power Industry Report;"
- Form EIA-861S, "Annual Electric Power Industry Report (Short Form);"
- Form EIA-923, "Power Plant Operations Report."

These forms can be found on the EIA Internet website at:

<http://www.eia.gov/cneaf/electricity/page/forms.html>.

Survey data from other Federal sources are also utilized for this publication. They include:

- FERC Form 1, “Annual Report of Major Electric Utilities, Licensees, and Others;”
- U. S. Department of Agriculture (USDA) Rural Utility Service Form 7, “Financial and Statistical Report;” and
- USDA Rural Utility Service Form 12, “Operating Report – Financial.”

In addition to the above-named forms, the historical data published in the EPA are compiled from the following inactive forms:

- Form EIA-412, “Annual Electric Industry Financial Report,” FERC Form 423, “Cost and Quality of Fuels for Electric Plants,”
- Form EIA-423, “Monthly Cost and Quality of Fuels for Electric Plants Report;”
- Form EIA-759, “Monthly Power Plant Report,”
- Form EIA-767, “Steam-Electric Plant Operation and Design Report;”
- Form EIA-860A, “Annual Electric Generator Report–Utility,”
- Form EIA-860B, “Annual Electric Generator Report–Nonutility,”
- Form EIA-867, “Annual Nonutility Power Producer Report,”
- Form EIA-900, “Monthly Nonutility Power Report,”
- Form EIA-906, “Power Plant Report;” and
- Form EIA-920, “Combined Heat and Power Plant Report.”

Additionally, some data reported in this publication were acquired from public reports of the National Energy Board of Canada on electricity imports and exports.

Meanings of Symbols Appearing in Tables: The following symbols have the meaning described below:

- * The value reported is less than half of the smallest unit of measure, but is greater than zero.
- P Indicates a preliminary value.
- W Withheld to avoid disclosure of individual company data.
- NM Data value is not meaningful, either (1) when compared to the same value for the previous time period, or (2) when a data value is not meaningful due to having a high Relative Standard Error (RSE).
- (* Usage of this symbol indicates a number rounded to zero.

Form EIA-411

The information reported on the mandatory Form EIA-411 includes: (1) actual energy and peak demand for the preceding year and five additional years; (2) existing and future generating capacity and capacity reserve margins; (3) scheduled capacity transfers; (4) projections of capacity, demand, purchases, sales, and scheduled maintenance; (5) power flow cases; and (6) bulk power system maps. The data is collected for EIA by NERC from NERC regional reliability entities, which in turn aggregate reports from regional members. Non-member data is also included. The compiled data is reviewed and edited by NERC and submitted to EIA annually on July 15. The data undergoes additional review by EIA. EIA resolves any quality issues with NERC.

Instrument and Design History: The Form EIA-411 program was initiated under the Federal Power Commission (FPC) Docket R-362, Reliability and Adequacy of Electric Service, and Orders 383-2, 383-3, and 383-4. The DOE, established in October 1977, assumed the responsibility for this activity. The responsibility for collecting these data was delegated to the Office of Emergency Planning and Operations within the DOE and was transferred to EIA for the reporting year 1996. Until 2008, this form was voluntary. The data are collected under the authority of the Federal Power Act (Public Law 88-280), the Federal Energy Administration Act of 1974 (Public Law 93-275), and the DOE Organization Act (Public Law 95-91).

Issues within Historical Data Series: The Florida Reliability Coordinating Council (FRCC) separated itself from the Southeastern Electric Reliability Council (SERC) in the mid-1990s and all time series data have been adjusted. In 1998, several utilities realigned from Southwest Power Pool (SPP) to SERC. Adjustments were made to the information to account for the separation and to address the tracking of shared reserve capacity that was under long-term contracts with multiple members. Name changes altered the Mid-Continent Area Power Pool (MAPP) to the Midwest Reliability Organization (MRO) and the Western Systems Coordinating Council (WSCC) to the Western Electricity Coordinating Council (WECC). The MRO membership boundaries have altered over time, but WECC membership boundaries have not. The utilities in the associated regional entity identified as the Alaska System Coordination Council (ASCC) dropped their formal participation in NERC. (Alaska and, obviously, Hawaii are not electrically interconnected with the coterminous 48 States).

At the close of calendar year 2005, the following reliability regional councils were dissolved: East Central Area Reliability Coordination Agreement (ECAR), Mid-Atlantic Area Council (MAAC), and Mid-America Interconnected Network (MAIN). On January 1, 2006, the ReliabilityFirst Corporation (RFC) came into existence as a new regional reliability council. Individual utility membership in the former ECAR, MAAC, and MAIN councils mostly shifted to RFC. However, adjustments in membership, as utilities joined or left various reliability councils, impacted MRO, SERC, and SPP. The Texas Regional Entity (TRE) was formed to handle the regional reliability responsibilities of the Electric Reliability Council of Texas (ERCOT). The revised delegation agreements covering all the regions were approved by the FERC on March 21, 2008. Reliability Councils that are unchanged include: Florida Reliability Coordinating Council (FRCC), Northeast Power Coordinating Council (NPCC), and the Western Electricity Coordinating Council (WECC). The historical time series have not been adjusted to account for individual membership shifts.

The current NERC regional entity names are as follows:

- Florida Reliability Coordinating Council (FRCC),
- Midwest Reliability Organization (MRO),
- Northeast Power Coordinating Council (NPCC),
- ReliabilityFirst Corporation (RFC),
- Southeastern Electric Reliability Council (SERC),
- Southwest Power Pool (SPP),
- Texas Regional Entity (TRE), and
- Western Energy Coordinating Council (WECC).

Changes Introduced in 2011: Starting in 2011, NERC modified the bulk power system reporting regions (in contrast to regional reliability entity organizational boundaries) to align them with electric market operations. Consequently, reliability data will be reported for the PJM and MISO regional transmission organization areas and the MAPP area rather than for the MRO and RFC regional areas. This new framework, along with the other NERC regions, now forms the bulk power system reliability assessment areas.

Historically the MRO, RFC, SERC, and SPP regional boundaries were altered as utilities changed reliability organizations. In published EIA reports the historical data series for these regions have not been adjusted. Instead, starting in 2011, EIA has introduced the Balance of Eastern Region category to provide a consistent trend for the Eastern interconnection.

Concept of Demand within the EIA-411: The EIA-411 uses the following categorization of electricity demand:

- **Net Internal Demand:** Internal Demand less Direct Control Load Management and Interruptible Demand.
- **Internal Demand:** To collect these data, NERC develops a Total Internal Demand that is the sum of the metered (net) outputs of all generators within the system and the metered line flows into the system, less the metered line flows out of the system. The demand of station service or auxiliary needs (such as fan motors, pump motors, and other equipment essential to the operation of the generating units) is not included nor are any requirement customer (utility) load or capacity found behind the line meters on the system.
- **Direct Control Load Management:** Demand-Side Management that is under the direct control of the system operator. DCLM may control the electric supply to individual appliances or equipment on customer premises; it does not include Interruptible Demand.
- **Interruptible Demand:** The magnitude of customer demand that, in accordance with contractual arrangements, can be interrupted at the time of the Regional Council's seasonal peak by direct control of the System Operator or by action of the customer at the direct request of the System Operator.

For additional information on demand, refer to the NERC's Long-Term Reliability Assessments at <http://www.nerc.com/page.php?cid=4|61>.

Sensitive Data: Power flow cases and maps are considered business sensitive.

Form EIA-412 (Terminated)

The Form EIA-412 was used annually to collect accounting, financial, and operating data from publicly owned electric utilities engaged in the generation, transmission, or distribution of electricity which had 150,000 megawatthours of sales to ultimate consumers and/or 150,000 megawatthours of sales for resale for the two previous years. Data was collected annually.

Beginning with the 2001 data collection, the plant statistics reported on Schedule 9 were also collected from unregulated entities that own plants with a nameplate capacity of 10 megawatts or greater. Beginning with the 2003 collection, the transmission data reported in Schedules 10 and 11 were collected from each generation and transmission cooperative owning transmission lines having a nominal voltage of 132 kilovolts or greater.

Instrument and Design History: The FPC created the FPC Form 1M in 1961 as a mandatory survey. It became the responsibility of the EIA in October 1977 when the FPC was merged with DOE and renamed the Federal Energy Regulatory Commission (FERC). In 1979, the FPC Form 1M was superseded by the Economic Regulatory Administration (ERA) Form ERA-412 and in January 1980 by the Form EIA-412.

The criteria used to select the respondents for this survey fit approximately 500 publicly owned electric utilities. Federal electric utilities were required to file the Form EIA-412. The financial data for the U.S. Army Corps of Engineers (except for Saint Mary's Falls at Sault Ste. Marie, Michigan); the U.S. Department of Interior, Bureau of Reclamation; and the U.S. International Boundary and Water Commission were collected on the Form EIA-412 from the Federal power marketing administrations. The form was terminated after the 2003 data year.

Issues within Historical Data Series: For 2001 - 2003, the California Department of Water Resources (CDWR) Electric Energy Fund data were included in the EIA-412 data tables. In response to the energy shortfall in California, in 2001 the California State legislature authorized the CDWR, using its undamaged borrowing capability, to enter the wholesale markets on behalf of the California retail customers effective on January 17, 2001 and for the period ending December 31, 2002. Their 2001 revenue collected was \$5,501,000,000 with purchased power costs of \$12,055,000,000. Their 2002 revenue collected was \$4,210,000,000 with purchased power costs of \$3,827,749,811. Their 2003 revenue collected was \$4,627,000,000 with purchased power costs of \$4,732,000,000. The California Public Utility Commission was required by statute to establish the procedures for retail revenue recovery mechanisms for their purchase power costs in the future.

Sensitive Data: The nonutility data collected on Schedule 9 "Electric Generating Plant Statistics" for "Cost of Plant" and "Production Expenses," are considered business sensitive. .

Form EIA-423 (Replaced in 2008 by the Form EIA-923)

The Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," collected the cost and quality of fossil fuels delivered to nonutility plants to produce electricity. These plants included independent power producers (including those facilities that formerly reported on the FERC Form 423) and commercial and industrial combined heat and power (CHP) producers whose total fossil-fueled nameplate generating capacity was 50 or more megawatts (MW). (CHP plants are sometimes referred to as co-generators. They produce heat, such as steam for use in a manufacturing process, along with electricity).

Instrument and Design History: The Form EIA-423² was implemented in January 2002 to collect monthly cost and quality data for fossil fuel receipts from owners or operators of nonutility electricity

generating plants. It was terminated on January 1, 2008, and replaced by the Form EIA-923, "Power Plant Operations Report."

Issues within Historical Data Series: Natural gas values do not include blast furnace gas or other gas.

Sensitive Data: Plant fuel cost data collected on the survey are considered business sensitive. State- and national-level aggregations are published if sufficient data are available to avoid disclosure of individual company and plant level costs.

FERC Form 423 (Replaced in 2008 by Form EIA-923)

The FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," was administered by FERC. The data were downloaded from the Commission's website into an EIA database. The Form was filed by approximately 600 regulated plants. To meet the criteria for filing, a plant must have had a total steam turbine electric generating capacity and/or combined-cycle (gas turbine with associated steam turbine) generating capacity of 50 or more megawatts. Only fuel delivered for use in steam-turbine and combined-cycle units was reported. Fuel received for use in gas-turbine or internal-combustion units that was not associated with a combined-cycle operation was not reported. The FERC Form 423 was replaced after 2007 by the Form EIA-923.

Instrument and Design History: On July 7, 1972, the FPC issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, creating the FPC Form 423. Originally, the form was used to collect data only on fossil steam plants, but was amended in 1974 to include data on internal-combustion and combustion-turbine units. When DOE was formed in 1977, most of FPC became FERC. The FERC Form 423 replaced the FPC Form 423 in January 1983. The FERC Form 423 dropped stand-alone combustion turbines. In addition, the generator nameplate capacity threshold was changed from 25 megawatts to 50 megawatts. This reduction in coverage eliminated approximately 50 utilities and 250 plants. All historical FPC Form 423 data in this publication were revised to reflect the new generator-nameplate-capacity threshold of 50 or more megawatts reported on the FERC Form 423. In January 1991, the collection of data on the FERC Form 423 was extended to include combined cycle units. Historical data have not been revised to include these units. On January 1, 2008, EIA assumed responsibility for collection of these data and both the utility and nonutility plants began to report their cost and quality of fuels information on Schedule 2 of Form EIA-923, "Power Plant Operations Report."

Issues within Historical Data Series: These data were collected by FERC for regulatory rather than statistical and publication purposes. EIA did not attempt to resolve any late filing issues in the FERC Form 423 survey. The data were quality reviewed by EIA and when possible quality issues were resolved with FERC.

Natural gas values for 2001 forward do not include blast furnace gas or other gas.

Due to the estimation procedure described below in the discussion of the Form EIA-923, 2003 and later data cannot be directly compared to previous years' data.

Sensitive Data: Data collected on FERC Form 423 are not business sensitive.

Form EIA-767 (Replaced by Forms EIA-860 and EIA-923)

The Form EIA-767 was used to collect data annually on plant operations and equipment design, including boiler, generator, cooling system, air pollution control equipment, and stack characteristics. Data were collected from a mandatory restricted-universe census of all electric power plants with a total existing or planned organic-fueled or combustible renewable steam-electric generator nameplate rating of 10 or more megawatts. The entire form was filed by approximately 800 power plants with a nameplate capacity of 100 or more megawatts. An additional 600 power plants with a nameplate capacity under 100 megawatts submitted information only on fuel consumption and quality, boiler and generator configuration, and nitrogen oxides, mercury, particulate matter, and sulfur dioxide controls.

Instrument and Design History: The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data. The predecessor form, FPC-67, "Steam-Electric Plant Air and Water Quality Control Data," was used to collect data from 1969 to 1980, when the form number was changed to Form EIA-767. In 1982, the form was completely redesigned and re-titled Form EIA-767, "Steam-Electric Plant Operation and Design Report." In 1986, the respondent universe of 700 plants was increased to 900 plants to include plants with nameplate capacity from 10 megawatts to 100 megawatts. In 2002, the respondent universe was increased by almost 1,370 plants with the addition of nonutility plants.

Collection of data via the form was suspended for the 2006 data year. Starting with the collection of 2007 calendar year data, most of the Form EIA-767 information is now collected on either the revised Form EIA-860, "Annual Electric Generator Report" or the new Form EIA-923, "Power Plant Operations Report."

Estimation of EIA-767 Data: No estimation of Form EIA-767 data was performed. Normally the survey had no non-response.

Issues within Historical Data Series: As noted above, no data were collected for calendar year 2006.

Sensitive Data: Latitude and longitude data collected on the Form EIA-767 were considered business sensitive.

Form EIA-826

The Form EIA 826, "Monthly Electric Utility Sales and Revenues with State Distributions Report," is a monthly collection of data from a sample of approximately 520 of the largest electric utilities (primarily investor and publicly owned) as well as a census of energy service providers with retail sales in deregulated States. Form EIA-861 (see below), with approximately 3,300 respondents, serves as a frame from which the Form 826 sample is drawn. Based on this sample, a model is used to estimate for the entire universe of U.S. electric utilities on a monthly basis.

Instrument and design history: The collection of electric power sales data and related information began in the early 1940's and was established as FPC Form 5 by FPC Order 141 in 1947. In 1980, the report was revised with only selected income items remaining and became the FERC Form 5. The Form EIA 826, "Electric Utility Company Monthly Statement," replaced the FERC Form 5 in January 1983. In January 1987, the "Electric Utility Company Monthly Statement" was changed to the "Monthly Electric

Utility Sales and Revenue Report with State Distributions.” The title was changed again in January 2002 to “Monthly Electric Utility Sales and Revenues with State Distributions Report” to become consistent with other EIA report titles. The Form EIA 826 was revised in January 1990, and some data elements were eliminated.

In 1993, EIA for the first time used a model sample for the Form EIA 826. A stratified random sample, employing auxiliary data, was used for each of the four previous years. The sample for the Form EIA 826 was designed to obtain estimates of electricity sales and average retail price of electricity at the State level by end use sector.

Starting with data for January 2001, the restructuring of the electric power industry was taken into account by forming three schedules on the Form EIA-826. Schedule 1, Part A is for full service utilities that operate as in the past. Schedule 1, Part B is for electric service providers only, and Schedule 1, Part C is for those utilities providing distribution service for those on Schedule 1, Part B. In addition, Schedule 1 Part D is for those retail energy providers or power marketers that provide bundled service. Also, the Form EIA-826 frame was modified to include all investor-owned electric utilities and a sample of companies from other ownership classes. A new method of estimation was implemented at this same time. (See Electric Power Monthly, April 2001, p.1.)

With the October 2004 issue of the Electric Power Monthly (EPM), EIA published for the first time preliminary electricity sales data for the Transportation Sector. These data are for electricity delivered to and consumed by local, regional, and metropolitan transportation systems. The data being published for the first time in the October EPM included July 2004 data as well as year-to-date. EIA’s efforts to develop these new data have identified anomalies in several States and the District of Columbia. Some of these anomalies are caused by issues such as: 1) Some respondents have classified themselves as outside the realm of the survey. The Form EIA-826 collects retail data from those respondents providing electricity and other services to the ultimate end users. EIA has experienced specific situations where, although the respondents’ customers are the ultimate end users, particular end users qualify under wholesale rate schedules. 2) The Form EIA-826 is a cutoff sample and not intended to be a census.

Data processing and data system editing: Monthly Form EIA-826 submission is available via an Internet Data Collection (IDC) system. The completed data are due to EIA by the last calendar day of the month following the reporting month. Nonrespondents are contacted to obtain the data. The data are edited and additional checks are completed. Following verification, imputation is run, and tables and text of the aggregated data are produced for inclusion in the EPM.

Imputation: Regression prediction, or imputation, is done for entities not in the monthly sample and for any nonrespondents. Regressor data for Schedule 1, Part A is the average monthly sales or revenue from the most recent finalized data from survey Form EIA-861. Beginning with January 2008 data and the finalized 2007 data, the regressor data for Schedule 1 Parts B and C is the prior month’s data.

Formulas and methodologies: The Form EIA 826 data are collected by end-use sector (residential, commercial, industrial, and transportation) and State. Form EIA 861 (see below) data are used as the frame from which the sample is selected and in some instances also as regressor data. Updates are made to the frame to reflect mergers that affect data processing.

With the revised definitions for the commercial and industrial sectors to include all data previously reported as 'other' data except transportation, and a separate transportation sector, all responses that would formerly have been reported under the "other" sector are now to be reported under one of the sectors that currently exist. This means there is probably a lower correlation, in general, between, say, commercial Form EIA-826 data for 2004 and commercial Form EIA-861 data for 2003 than there was between commercial Form EIA-826 data for 2003 and commercial Form EIA-861 data for 2002 or earlier years, although commercial and industrial definitions have always been somewhat nebulous due to power companies not having complete information on all customers.

Data submitted for January 2004 represent the first time respondents were to provide data specifically for the transportation end-use sector.

During 2003 transportation data were collected annually through Form EIA-861. Beginning in 2004 the transportation data were collected on a monthly basis via Form EIA-826. In order to develop an estimate of the monthly transportation data for 2003, values for both retail sales of electricity to ultimate customers and revenue from retail sales of electricity to ultimate customers were estimated using the 2004 monthly profile for the sales and revenues from the data collected via Form EIA-826. All monthly non-transportation data for 2003 (i.e. street lighting, etc.), which were previously reported in the "other" end-use sector on the Form EIA-826 have been prorated into the Commercial and Industrial end-use sectors based on the 2003 Form EIA-861 profile.

A monthly distribution factor was developed for the monthly data collected in 2004 (for the months of January through November). The transportation sales and revenues for December 2004 were assumed to be equivalent to the transportation sales and revenues for November 2004. The monthly distribution factors for January through November were applied to the annual values for transportation sales and revenues collected via Form EIA-861 to develop corresponding 2003 monthly values. The eleven month estimated totals from January through November 2003 were subtracted from the annual values obtained from Form EIA-861 in order to obtain the December 2003 values.

Data from the Form EIA-826 are used to determine estimates by sector at the State, Census division, and national level. State level sales and revenues estimates are first calculated. Then the ratio of revenue divided by sales is calculated to estimate retail price of electricity at the State level. The estimates are accumulated separately to produce the Census division and U.S. level estimates³.

Some electric utilities provide service in more than one State. To facilitate the estimation, the State service area is actually used as the sampling unit. For each State served by each utility, there is a utility State part, or "State service area." This approach allows for an explicit calculation of estimates for sales, revenue, and average retail price of electricity by end use sector at State, Census division, and national level. Estimation procedures include imputation to account for nonresponse. Non-sampling error must also be considered. The non-sampling error is not estimated directly, although attempts are made to minimize the non-sampling error.

Average retail price of electricity represents the cost per unit of electricity sold and is calculated by dividing retail electric revenue by the corresponding sales of electricity. The average retail price of electricity is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average retail price of electricity is the operating revenue reported by the electric utility. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges. Electric utility operating revenues also include State and Federal income taxes and taxes other than income taxes paid by the utility.

The average retail price of electricity reported in this publication by sector represents a weighted average of consumer revenue and sales within sectors and across sectors for all consumers, and does not reflect the per kWh rate charged by the electric utility to the individual consumers. Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs to the electric utility for providing electrical service.

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

Sensitive data: Most of the data collected on the Form EIA-826 are not considered business sensitive. However, monthly revenue, sales, and customer data collected from energy service providers (Schedule 1, Part B), which do not also provide energy delivery, are considered business sensitive and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

Form EIA-860

The Form EIA-860 is a mandatory annual census of all existing and planned electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts. The survey is used to collect data on existing power plants and 10 year plans for constructing new plants, as well as generating unit additions, modifications, and retirements in existing plants. Data on the survey are collected at the individual generator level. Certain power plant environmental-related data are collected at the boiler level. These data include environmental equipment design parameters and boiler air emission standards and boiler emission controls.

Instrument and Design History: The Form EIA-860 was originally implemented in January 1985 to collect plant data on electric utilities as of year-end 1984. It was preceded by several Federal Power Commission (FPC) forms including the FPC Form 4, Form 12 and 12E, Form 67, and Form 411. In January 1999, the Form EIA-860 was renamed the Form EIA-860A and was implemented to collect data as of January 1, 1999.

In 1989, the Form EIA-867, "Annual Nonutility Power Producer Report," was initiated to collect plant data on unregulated entities with a total generator nameplate capacity of 5 or more megawatts. In 1992, the reporting threshold of the Form EIA-867 was lowered to include all facilities with a combined nameplate capacity of 1 or more megawatts. Previously, data were collected every 3 years from facilities with a nameplate capacity between 1 and 5 megawatts. In 1998, the Form EIA-867, was renamed Form EIA-860B, "Annual Electric Generator Report – Nonutility." The Form EIA-860B was a mandatory survey

of all existing and planned nonutility electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts.

Beginning with data collected for the year 2001, the infrastructure data collected on the Form EIA-860A and the Form EIA-860B were combined into the new Form EIA-860 and the monthly and annual versions of the Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

Starting with 2007, design parameters data formerly collected on Form EIA-767 were collected on Form EIA-860. These include design parameters associated with certain steam-electric plants' boilers, cooling systems, flue gas particulate collectors, flue gas desulfurization units, and stacks and flues.

Estimation of EIA-860 Data: No imputation was required for EIA-860 data.

Issues within Historical Data Series Regarding Categorization of Capacity by Business Sector: There are a small number of electric utility CHP plants, as well as a small number of industrial and commercial generating facilities that are not CHP. For the purposes of this report the data for these plants are included, respectively, in the following categories: "Electricity Generators, Electric Utilities," "Combined Heat and Power, Industrial," and "Combined Heat and Power, Commercial."

Some capacity in 2001 through 2004 is classified based on the operating company's classification as an electric utility or an independent power producer. Starting in the EPA 2006, capacity by producer type was determined at the power plant level for 2005 and all subsequent data collections. This change required revisions to the original published 2005 data.

Issues within Historical Data Series Regarding Planned Capacity: Delays and cancellations may have occurred subsequent to respondent data reporting as of December 31 of the data year.

Issues within Historical Data Series Regarding Capacity by Energy Source: Prior to the EPA 2005, the capacity for generators for which natural gas or petroleum was the most predominant energy source was presented in the following three categories: petroleum only, natural gas only, and dual-fired. The dual-fired category, which was EIA's effort to infer which generators could fuel-switch between natural gas and fuel oil, included only the capacity of generators for which the most predominant energy source and second most predominant energy source were reported as natural gas or petroleum. Beginning in 2005, capacity is assigned to energy source based solely on the most predominant (primary) energy source reported for a generator. The "dual-fired" category was eliminated. Separately, summaries of capacity associated with generators with fuel-switching capability are presented for 2005 and later years. These summaries are based on data collected from new questions added to the Form EIA-860 survey that directly address the ability of generators to switch fuels and co-fire fuels.

In the EPA 2005, certain petroleum-fired capacity was misclassified as natural gas-fired capacity for 1995 – 2003. This was corrected in the EPA 2006. Corrections were noted as revised data.

Prime Movers: The Form EIA-860 sometimes represents a generator’s prime mover by using the abbreviations in the table below.

| Prime Mover Code | Prime Mover Description |
|-------------------------|--|
| BA | Energy Storage, Battery |
| CE | Energy Storage, Compressed Air |
| CP | Energy Storage, Concentrated Solar Power |
| FW | Energy Storage, Flywheel |
| PS | Energy Storage, Reversible Hydraulic Turbine (Pumped Storage) |
| ES | Energy Storage, Other |
| ST | Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle) |
| GT | Combustion (Gas) Turbine (including jet engine design) |
| IC | Internal Combustion Engine (diesel, piston, reciprocating) |
| CA | Combined Cycle Steam Part |
| CT | Combined Cycle Combustion Turbine Part |
| CS | Combined Cycle Single Shaft |
| CC | Combined Cycle Total Unit |
| HA | Hydrokinetic, Axial Flow Turbine |
| HB | Hydrokinetic, Wave Buoy |
| HK | Hydrokinetic, Other |
| HY | Hydroelectric Turbine (including turbines associated with delivery of water by pipeline) |
| BT | Turbines Used in a Binary Cycle (including those used for geothermal applications) |
| PV | Photovoltaic |
| WT | Wind Turbine, Onshore |
| WS | Wind Turbine, Offshore |
| FC | Fuel Cell |
| OT | Other |

Energy Sources: The Form EIA-860 sometimes represents the energy sources associated with generators by using the abbreviations and/or groupings in the table below.

| Energy Source Grouping | Energy Source Code | Energy Source Description |
|--------------------------------|---------------------------|---|
| Coal | ANT | Anthracite Coal |
| | BIT | Bituminous Coal |
| | LIG | Lignite Coal |
| | SUB | Subbituminous Coal |
| | SGC | Coal-Derived Synthesis Gas |
| | WC | Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal) |
| Petroleum Products | DFO | Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils) |
| | JF | Jet Fuel |
| | KER | Kerosene |
| | PC | Petroleum Coke |
| | PG | Gaseous Propane |
| | RFO | Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil) |
| | SG | Synthesis Gas from Petroleum Coke |
| | WO | Waste/Other Oil (including crude oil, liquid butane, liquid propane, naphtha, oil waste, re-refined motor oil, sludge oil, tar oil, or other petroleum-based liquid wastes) |
| Natural Gas and Other Gases | BFG | Blast Furnace Gas |
| | NG | Natural Gas |
| | OG | Other Gas |
| Nuclear | NUC | Nuclear (including Uranium, Plutonium, and Thorium) |
| Hydroelectric Conventional | WAT (Prime Mover = HY) | Water at a Conventional Hydroelectric Turbine, and water used in Wave Buoy Hydrokinetic Technology, Current Hydrokinetic Technology, and Tidal Hydrokinetic Technology |
| | WAT (Prime Mover = PS) | Pumping Energy for Reversible (Pumped Storage) Hydroelectric Turbine |
| Wood and Wood-Derived Fuels | WDS | Wood/Wood Waste Solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids) |
| | WDL | Wood Waste Liquids (excluding Black Liquor but including red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids) |
| | BLQ | Black Liquor |
| Other Biomass | AB | Agricultural By-Products |
| | MSW | Municipal Solid Waste |
| | OBG | Other Biomass Gas (including digester gas, methane, and other biomass gases) |
| | OBL | Other Biomass Liquids |
| | OBS | Other Biomass Solids |
| | LFG | Landfill Gas |
| | SLW | Sludge Waste |
| Other Renewable Energy Sources | SUN | Solar (including solar thermal) |
| | WND | Wind |
| | GEO | Geothermal |
| Other Energy Sources | PUR | Purchased Steam |
| | WH | Waste heat not directly attributed to a fuel source |
| | TDF | Tire-Derived Fuels |
| | MWH | Electricity used for energy storage |
| | OTH | Other |

Sensitive Data: The tested heat rate data collected on the Form EIA-860 are considered business sensitive.

Form EIA-861

The Form EIA-861 is a mandatory annual census of electric power industry participants in the United States. Prior to data year 2012, the survey was used to collect information on power sales and revenue data from approximately 3,300 respondents. About 3,100 are electric utilities, and the remainders are nontraditional entities such as energy service providers or the unregulated subsidiaries of electric utilities and power marketers.

For data year 2012 and forward, EIA modified the frame of the Form EIA-861, “Annual Electric Power Industry Report,” from a census to a sample, and EIA is using model-based methods to estimate the sales, revenues, and customer counts by sector and state for those respondents that have been removed from the frame. EIA created a new Form EIA-861S, “Annual Electric Power Industry Report (Short Form),” for the respondents that have been removed from the Form EIA-861 frame. The form collects limited data such as total sales, revenues, and customer counts by state.

Transportation Sector: Prior to 2003, sales of electric power for transportation (e.g., city subway systems) were included in the Other Sector, along with sales to customers for public buildings, traffic signals, public street lighting, and sales to irrigation consumers. Beginning with the 2003 data collection, sales to the Transportation Sector were collected separately. The balance of the Other Sector was reclassified as Commercial Sector sales except that sales to irrigation customers, where separately identified, were reclassified to the Industrial Sector.

On the Form EIA-861, the Transportation Sector is defined as electrified rail, primarily urban transit, light rail, automated guideway, and other rail systems whose primary propulsive energy source is electricity. Electricity sales to Transportation Sector consumers whose primary propulsive energy source is not electricity (i.e., gasoline, diesel fuel, etc.) are not included.

Benchmark statistics were reviewed from outside surveys, most notably the U.S. Department of Transportation (DOT) Federal Transit Administration’s National Transportation Database, a source previously used by EIA to estimate electricity transportation consumption. The DOT survey indicated the State and City locations of expected respondents. The Form EIA-861 survey methodology assumed that sales, revenue, and customer counts associated with these mass transit systems would be provided by the incumbent utilities in these areas, relying on information drawn routinely from rate schedules and classifications designed to serve the sector separately and distinctly. In 2010, 64 respondents reported transportation data in 28 States.

Data Reconciliation: The Electric Power Annual reports total retail sales volumes (megawatthours) and customer counts in States with deregulated markets as the sum of bundled sales reported by full-service providers and delivery reported by transmission and distribution utilities. ERUS has concluded that the retail sales data reported by delivery utilities are more reliable than data reported by power marketers and Energy Service Providers (ESPs).

The reporting methodology change uses sales volumes and a customer count reported by distribution utilities, and modifies only an incremental revenue value, representing revenue associated with misreported sales assumed to be attributable to the ESPs that were under-represented in the survey frame.

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

Average Retail Price of Electricity: This value represents the average cost per unit of electricity sold and is calculated by dividing retail electric revenue by the corresponding sales of electricity. The average retail price of electricity is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average retail price of electricity is the operating revenue reported by the electric power industry participant. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges. Electric power industry participant operating revenues also include ratepayer reimbursements for State and Federal income taxes and other taxes paid by the utility.

This computed average retail price of electricity reported in this publication by is a weighted average of consumer revenue and sales and does not equal the per kWh rate charged by the electric power industry participant to the individual consumers. Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs of the electric power industry participant for providing electrical service.

Issues within Historical Data Series: Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. The number of ultimate customers is an average of the number of customers at the close of each month. Also see the discussion of the Transportation Sector, above.

Net-Metering: This section was expanded in 2011. Previously, customer count by sector was the only data collected and published. In 2010, the EIA-861 started collecting the capacity of the net-metered installations by sector and technology. The technology types are: photovoltaic (PV), wind and other.

Demand-Side Management (DSM): Prior to 2011, DSM data was separated into two categories, large and small utilities. Some tables contained data for just large utilities and others contained both categories, published separately. Starting in 2011, there is no longer a division in the data. All tables now include all DSM data from utilities; this change is also reflected in the historical data.

Starting in 2011, a new category of respondents were added to the EIA-861, non-utility DSM administrators: Efficiency Maine Trust, Energy trust of Oregon, Focus on Energy, NYSEERDA and Vermont Energy Investment Corporation.

The following definitions are supplied to assist in interpreting DSM data. Utility costs reflect the total cash expenditures for the year, in nominal dollars, that used to support DSM programs.

- **Actual Peak Load Reduction** is the actual reduction in annual peak load achieved by all program participants during the reporting year, at the time of annual peak load, as opposed to the installed peak load reduction capability (potential peak load reduction). Actual peak load reduction is reported by large utilities only.
- **Energy Savings** is the change in aggregate electricity use (measured in megawatthours) for consumers that participate in a utility DSM program. These savings represent changes at the consumer's meter (i.e., exclude transmission and distribution effects) and reflect only activities that are undertaken specifically in response to utility-administered programs, including those activities implemented by third parties under contract to the utility.
- **Large Utilities** are those electric utilities with annual sales to ultimate customers or sales for resale greater than or equal to 150 million kilowatthours in 1998-2009 and, for years prior, the threshold was set at 120 million kilowatthours.
- **Potential Peak Load Reduction** is the potential peak load reduction as a result of load management.

Advanced Metering: New in 2011, Automated Meter Reading (AMR) and Advanced Metering Infrastructure (AMI), including historical data back to 2007. From 2007-2009, the count by sector is for number of customers, for 2010-2011, the count is the actual number of meters. For example; if an industrial customer had 12 meters, in 2007-2009 the count would have been 1, in 2010-2011, the count would be 12.

Sensitive Data: None.

Forms EIA-906 and EIA-920 (Replaced in 2008 by Form EIA-923)

The Form EIA-906 was used to collect plant-level data on generation, fuel consumption, stocks, and fuel heat content, from electric utilities and nonutilities. Data were collected monthly from a model-based sample of approximately 1,700 utility and nonutility electric power plants. The form was also used to collect these statistics from another 2,667 plants (i.e., all other generators 1 MW or greater) on an annual basis. The form was ended after the 2007 data collection and replaced by the Form EIA-923.

Instrument and Design History: The Bureau of Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry prior to 1936. After 1936, the FPC assumed all data collection and publication responsibilities for the electric power industry and implemented the Form FPC-4. The Federal Power Act, Section 311 and 312, and FPC Order 141 defined the legislative authority to collect power production data. The Form EIA-759 replaced the Form FPC-4 in January 1982. In 1996, the Form EIA-900 was initiated to collect sales for resale data from unregulated entities. In 1998, the Form EIA-900 was modified to collect sales for resale, gross generation, and sales to end user

data. In 1999, the form was modified to collect net generation, consumption, and ending stock data. In 2000, the form was modified to include data on the production of useful thermal output (typically process steam) by combined heat and power (CHP) plants.

In January 2001, Form EIA-906 superseded Forms EIA-759 and EIA-900. In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as CHP plants; all other plants that generated electricity continued to report on Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93 275) defines the legislative authority to collect these data. In January 2008, the Form EIA-923 superseded this form.

Issues within Historical Data Series: A relatively small number electric commercial- and industrial-only plants are, for the purposes of this report, are included in the CHP data categories. The small number of electric utility plants that are CHP units are reported together with other utility plants. No information on the production of useful thermal output (UTO) or fuel consumption for UTO was collected or estimated for the electric utility CHP plants.

Sensitive Data: The only business sensitive data element collected on the Forms EIA-906 and EIA-920 was fuel stocks at the end of the reporting period.

Form EIA-923

Form EIA-923, "Power Plant Operations Report," is used to collect information on receipts and cost of fossil fuels, fuel stocks, generation, consumption of fuel for generation, nonutility source and disposition of electricity, combustion by-product collection and disposal, and cooling systems, as well as operational data for flue gas desulfurization, particulates, and nitrous oxide controls. Data are collected from a monthly sample of approximately 1,900 plants, which includes a census of nuclear and pumped-storage hydroelectric plants. The plants in the monthly sample report their receipts, cost and stocks of fossil fuels, electric power generation, and the total consumption of fuels for both electric power generation and, at combined heat and power (CHP) plants, useful thermal output. At the end of the year, the monthly respondents report their annual source and disposition of electric power (nonutilities only), operational data for air emissions controls and cooling systems, and the collection and disposal of combustion by-products on the Form EIA-923 Supplemental Form (Schedules 6, 7, and 8A to 8F). Approximately 4,200 plants, representing all generators not included in the monthly sample and with a nameplate capacity of 1 MW or more, report applicable data on the entire form annually. In addition to electric power generating plants, respondents include fuel storage terminals without generating capacity that receive shipments of fossil fuel for eventual use in electric power generation. The monthly data are due by the last day of the month following the reporting period.

Receipts of fossil fuels, fuel cost and quality information, and fuel stocks at the end of the reporting period are all reported at the plant level. Fuel receipts and costs are collected from plants with a nameplate capacity of 50 MW or more and burn fossil fuels. Plants that burn organic fuels and have a steam turbine capacity of at least 10 megawatts report consumption at the boiler level and generation at the generator level for each month, regardless of whether the plant reports in the monthly sample or reports annually. For all other plants, consumption is reported at the prime-mover level and generation is reported at the prime-mover level or, for noncombustible sources (e.g., wind, nuclear), at the prime-

mover and energy source levels (including generating units for nuclear only). The source and disposition of electricity are reported annually for nonutilities at the plant level, as is revenue from sales for resale. Operational data for air emissions equipment are collected annually from facilities that have a steam turbine capacity of at least 10 megawatts, and operational data on cooling systems and data on the collection and disposal of combustion by-products are collected from facilities that have a steam turbine capacity of at least 100 megawatts.

Instrument and Design History: See discussion of predecessor forms (EIA-906, -920, -767, and -423, and FERC Form 423).

Imputation: For data collected monthly, regression prediction, or imputation, is done for all missing data including non-sampled units and any non-respondents. For data collected annually, imputation is performed for non-respondents. For gross generation and total fuel consumption, multiple regression is used for imputation (see discussion, above). Approximately 0.02 percent of the national total generation for is imputed, although this will vary by State and energy source.

When gross generation is reported and net generation is not available, or vice versa, net or gross generation is estimated by using a fixed ratio of net to gross generation by prime-mover type and installed emissions equipment. These ratios are:

| Net Generation = (Factor) x Gross Generation |
|--|
| Prime Movers: |
| Combined Cycle Steam - 0.97 |
| Combined Cycle Single Shaft - 0.97 |
| Combined Cycle Combustion Turbine - 0.97 |
| Compressed Air - 0.97 |
| Fuel Cell - 0.99 |
| Gas Turbine - 0.98 |
| Hydroelectric Turbine - 0.99 |
| Hydroelectric Pumped Storage - 0.99 |
| Internal Combustion Engine - 0.98 |
| Other - 0.97 |
| Photovoltaic - 0.99 |
| Steam Turbine - 0.97 |
| Wind Turbine - 0.99 |
| Environmental Equipment: |
| Flue Gas Desulfurization - 0.97 |
| Flue Gas Particulate 0.99 |
| All Others - 0.97 |

For stocks, a linear combination of the prior month's ending stocks value and the current month's consumption and receipts values is used.

Receipts of Fossil Fuels: Receipts data, including cost and quality of fuels, are collected at the plant level from selected electric generating plants and fossil-fuel storage terminals in the United States. Power plants include independent power producers, electric utilities, and commercial and industrial CHP

facilities with a total fossil-fueled nameplate capacity of 50 megawatts or more. The data on cost and quality of fuel shipments are used to produce aggregates and weighted averages for each fuel type at the State, Census division, and U.S. levels.

The units for receipts are: 1) coal and petroleum coke, tons and million Btu per ton; 2) petroleum, barrels and million Btu per barrel.; and gases, thousand cubic feet (Mcf) and million Btu per thousand cubic feet.

Net and Gross Generation and Fuel Consumption and Stocks: Generation data are collected in megawatthours from all power plants with a sum of nameplate capacity at least 1 MW. The fuels consumed are collected in tons (solids), barrels (liquids) and thousand cubic feet (gases). Fuels are grouped into coal, petroleum liquids, petroleum coke, natural gas, other gases, and other miscellaneous fuels. Energy consumption is not collected for nuclear, wind, solar, geothermal or other plants that do not burn fuels. For information on fuel groupings, see the instructions to the Form EIA-923 at http://www.eia.gov/survey/form/eia_923/instructions.pdf. **Combustion By-Product Collection and Disposal:** Data are collected in thousand tons. Associated financial data for by-products (O&M and capital expenses and revenue) are collected in thousand dollars.

Air Emissions Equipment: Operational efficiencies and emission rates are collected for flue gas desulfurization, particulate matter, and nitrous oxide control equipment for steam-electric units with at least 10 MW nameplate capacity.

Cooling Systems: Operational data on water use is collected from steam-electric plants, including nuclear plants, with at least 100 MW nameplate capacity.

Methodology to Estimate Biogenic and Non-biogenic Municipal Solid Waste:⁴ Municipal Solid Waste (MSW) consumption for generation of electric power is split into its biogenic and non-biogenic components beginning with 2001 data by the following methodology:

The tonnage of MSW consumed is reported on the Form EIA-923. The composition of MSW and categorization of the components were obtained from the Environmental Protection Agency (EPA) publication, *Municipal Solid Waste in the United States: 2005 Facts and Figures*. The Btu contents of the components of MSW were obtained from various sources.

In 2011, the components of MSW as a percentage of the total were updated. The updated values were applied to final 2011 data and to preliminary 2012 and 2013 data. Although updated component percentages for 2006 through 2010 were available, historical EIA data series for consumption of MSW and net generation were not revised for 2005 to 2010. The tables below are the percentages applied to the EIA data for each year.

The potential quantities of combustible MSW discards (which include all MSW material available for combustion with energy recovery, discards to landfill, and other disposal) were multiplied by their respective Btu contents. The EPA-based categories of MSW were then classified into renewable and non-renewable groupings. From this, EIA calculated how much of the energy potentially consumed from

MSW was attributed to biogenic components and how much to non-biogenic components (see Table 1 and 2, below).⁵

These values are used to allocate consumption of municipal solid waste and net generation published in the Electric Power Monthly tables. The tons of biogenic and non-biogenic components were estimated with the assumption that glass and metals were removed prior to combustion. The average Btu/ton for the biogenic and non-biogenic components is estimated by dividing the total Btu consumption by the total tons. Published net generation attributed to biogenic MSW and non-biogenic MSW is classified under Other Renewables and Other, respectively.

Table 1. Btu consumption for biogenic and non-biogenic municipal solid waste (percent)

| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|
| Biogenic | 57 | 56 | 55 | 55 | 56 | 56 | 56 | 56 | 56 | 56 | 51 |
| Non-biogenic | 43 | 44 | 45 | 45 | 44 | 44 | 4 | 44 | 44 | 44 | 49 |

Table 2. Tonnage consumption for biogenic and non-biogenic municipal solid waste (percent)

| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|
| Biogenic | 77 | 77 | 76 | 76 | 75 | 75 | 75 | 75 | 75 | 75 | 64 |
| Non-biogenic | 23 | 23 | 24 | 24 | 25 | 25 | 25 | 25 | 25 | 25 | 36 |

Useful Thermal Output (UTO): With the implementation of the Form EIA-923, “Power Plant Operations Report,” in 2008, combined heat and power (CHP) plants were required to report total fuel consumed and electric power generation. Beginning with preliminary January 2008 data, EIA estimated the allocation of the total fuel consumed at CHP plants between electric power generation and UTO.

The estimated allocation methodology is summarized in the following paragraphs. The methodology was retroactively applied to 2004-2007 data. Prior to 2004, UTO was collected on the Form EIA-906 and an estimated allocation of fuel for electricity was not necessary.

First, an efficiency factor is determined for each plant and prime mover type. Based on data for electric power generation and UTO collected in 2003 (on Form EIA-906, “Power Plant Report”), efficiency was calculated for each prime mover type at a plant. The efficiency factor is the total output in Btu, including electric power and UTO, divided by the total input in Btu. Electric power is converted to Btu at 3,412 Btu per kilowatthour.

Second, to calculate the amount of fuel for electric power, the gross generation in Btu is divided by the efficiency factor. The fuel for UTO is the difference between the total fuel reported and the fuel for electric power generation. UTO is calculated by multiplying the fuel for UTO by the efficiency factor.

In addition, if the total fuel reported is less than the estimated fuel for electric power generation, then the fuel for electric power generation is equal to the total fuel consumed, and the UTO will be zero.

Issues within Historical Data Series for Receipts and Cost and Quality of Fossil Fuels: Values for receipts of natural gas for 2001 forward do not include blast furnace gas or other gas.

Historical data collected on FERC Form 423 and published by EIA have been reviewed for consistency between volumes and prices and for their consistency over time. However, these data were collected by FERC for regulatory rather than statistical and publication purposes. EIA did not attempt to resolve any late filing issues in the FERC Form 423 data. In 2003, EIA introduced a procedure to estimate for late or non-responding entities that were required to report on the FERC Form 423. Due to the introduction of this procedure, 2003 and later data cannot be directly compared to previous years' data.

Prior to 2008, regulated plants reported receipts data on the FERC Form 423. These plants, along with unregulated plants, now report receipts data on Schedule 2 of Form EIA-923. Because FERC issued waivers to Form 423 filing requirements to some plants who met certain criteria, and because not all types of generators were required to report (only steam turbines and combined cycle units reported), a significant number of plants either did not submit fossil fuel receipts data or submitted only a portion of their fossil fuel receipts. Since Form EIA-923 does not have exemptions based on generator type, or reporting waivers, receipts data from 2008 and later cannot be directly compared to previous years' data for the regulated sector. Also beginning with January 2008 data, tables for total receipts included imputed quantities for plants with capacity one megawatt or more, to be consistent with other electric power data. Previous published receipts data were from plants at or over a 50 megawatt threshold, which was a legacy of their original collection as information for a regulatory agency, not as a survey to provide more meaningful estimates of totals for statistical purposes. Totals appeared to become smaller as more electric production came from unregulated plants, until the Form EIA-423 was created to help fill that gap. As a further improvement, estimation of all receipts for the universe normally depicted in the Electric Power Annual (i.e., one megawatt and above), with associated relative standard errors, provides a more complete assessment of the market.

Issues within Historical Data Series for Generation and Consumption: Beginning in 2008, a new method of allocating fuel consumption between electric power generation and UTO was implemented (see above). This new methodology evenly distributes a CHP plant's losses between the two output products (electric power and UTO). In the historical data, UTO was consistently assumed to be 80 percent efficient and all other losses at the plant were allocated to electric power. This change causes the fuel for electric power to be lower while the fuel for UTO is higher as both are given the same efficiency. This results in the appearance of an increase in efficiency of production of electric power between periods.

Sensitive Data: The total delivered cost of fuel delivered to nonutilities, the commodity cost of fossil fuels, and fuel stocks are considered business sensitive.

Average Capacity Factors

This section describes the methodology for calculating capacity factors by fuel and technology type for operating electric power plants. Capacity factor is a measure (expressed as a percent) of how often an

electric generator operates over a specific period of time, using a ratio of the actual output to the maximum possible output over that time period.

The capacity factor calculation only includes operating electric generators in the Electric Power Sector (sectors 1, 2 and 3) using the net generation reported on the Form EIA-923 and the net summer capacity reported on the Form EIA-860. The capacity factor for a particular fuel/technology type is given by:

$$\text{capacity factor} = \frac{\sum_{x,m} \text{generation}_{x,m}}{\sum_{x,m} \text{capacity}_x * \text{available time}_{x,m}}$$

Where x represents generators of that fuel/technology combination and m represents the period of time (month or year). Generation and capacity are specific to a generator, and the generator is categorized by its primary fuel type as reported on the EIA-860. All generation from that generator is included, regardless of other fuels consumed. Available time is also specific to the generator in order to account for differing online and retirement dates. Therefore, these published capacity factors will differ from a simple calculation using annual generation and capacity totals from the appropriate tables in this publication.

Air Emissions

This section describes the methodology for calculating estimated emissions of carbon dioxide (CO₂) from electric generating plants for 1989 through the present, as well as the estimated emissions of sulfur dioxide (SO₂) and nitrogen oxides (NO_x) from electric generating plants for 2001 through the present. For a description of the methodology used for other years, see the technical notes to the EPA 2003.

Methodology Overview: Initial estimates of uncontrolled SO₂ and NO_x emissions for all plants are made by applying an emissions factor to fuel consumption data collected by EIA on the Form EIA-923. An emission factor is the average quantity of a pollutant released from a power plant when a unit of fuel is burned, assuming no use of pollution control equipment. The basic relationship is:

$$\text{Emissions} = \text{Quantity of Fuel Consumed} \times \text{Emission Factor}$$

Quantity is defined in physical units (e.g., tons of solid fuels, million cubic feet of gaseous fuels, and thousands of barrels of liquid fuels) for determining NO_x and SO₂ emissions. As discussed below, physical quantities are converted to millions of Btus for calculating CO₂ emissions.

For some fuels, the calculation of SO₂ emissions requires including in the formula the sulfur content of the fuel measured in percentage of weight. Examples include coal and fuel oil. In these cases the formula is:

$$\text{Emissions} = \text{Quantity of Fuel Consumed} \times \text{Emission Factor} \times \text{Sulfur Content}$$

The fuels that require the percent sulfur as part of the emissions calculation are indicated in Table A.1., which lists the SO₂ emission factors used for this report.

In the case of SO₂ and NO_x emissions, the factor applied to a fuel can also vary with the combustion system: a steam-producing boiler, a combustion turbine, or an internal combustion engine. In the case of boilers, NO_x emissions can also vary with the firing configuration of a boiler and whether or not the boiler is a wet-bottom or dry-bottom design.⁶ These distinctions are shown in Tables A.1. and A.2.

For SO₂ and NO_x, the initial estimate of uncontrolled emissions is reduced to account for the plant's operational pollution control equipment, when data on control equipment are available from the historical Form EIA-767 survey (i.e., data for the years 2005 and earlier) and the EIA-860 and EIA-923 surveys for the years 2007 through 2010. A special case for removal of SO₂ is the fluidized bed boiler, in which the sulfur removal process is integral with the operation of the boiler. The SO₂ emission factors shown in Table A.1. for fluidized bed boilers already account for 90 percent removal of SO₂ since, in effect, the plant has no uncontrolled emissions of this pollutant.

Although SO₂ and NO_x emission estimates are made for all plants, in many cases the estimated emissions can be replaced with actual emissions data collected by the U.S. Environmental Protection Agency's (U.S. EPA's) Continuous Emissions Monitoring System (CEMS) program. (CEMS data for CO₂ are incomplete and are not used in this report.) The CEMS data account for the bulk of SO₂ and NO_x emissions from the electric power industry. For those plants for which CEMS data are available, the EIA estimates of SO₂ and NO_x emissions are employed for the limited purpose of allocating emissions by fuel, since the CEMS data itself do not provide a detailed breakdown of plant emissions by fuel. For plants for which CEMS data are unavailable, the EIA-computed values are used as the final emissions estimates.

There are a number of reasons why the historical data are periodically revised. These include data revisions, revisions in emission and technology factors, and changes in methodology. For instance, the 2008 Electric Power Annual report features a revision in historic CO₂ values. This revision occurred due to a change in the accepted methodology regarding adjustments made for the percentage combustion of fuels.

The emissions estimation methodologies are described in more detail below.

CO₂ Emissions: CO₂ emissions are estimated using the information on fuel consumption in physical units and the heat content of fuel collected on the Form EIA-923 and predecessors. Heat content information is used to convert physical units to millions of Btu (MMBtu) consumed. To estimate CO₂ emissions, the fuel-specific emission factor from Table A.3. is multiplied by the fuel consumption in MMBtu.

The estimation procedure calculates uncontrolled CO₂ emissions. CO₂ control technologies are currently in the early stages of research and there are no commercial systems installed. Therefore, no estimates of controlled CO₂ emissions are made.

SO₂ and NO_x Emissions: To comply with environmental regulations controlling SO₂ emissions, many coal-fired generating plants have installed flue gas desulfurization (FGD) units. Similarly, NO_x control regulations require many fossil-fueled plants to install low-NO_x burners, selective catalytic reduction systems, or other technologies to reduce emissions. It is common for power plants to employ two or even three NO_x control technologies; accordingly, the NO_x emissions estimation approach accounts for the combined effect of the equipment (Table A.4.). However, control equipment information is available only for plants that reported on the Form EIA-923 and for historical data from the Form EIA-767. The Form EIA-860, EIA-923, and the historical EIA-767 surveys are limited to plants with boilers fired by combustible fuels⁷ with a minimum generating capacity of 10 megawatts (nameplate). Pollution control equipment data are unavailable from EIA sources for plants that did not report on the historical EIA-767 survey, or the Forms EIA-860 and EIA-923.

The following method is used to estimate SO₂ and NO_x emissions:

- For steam electric plants, uncontrolled emissions are estimated using the emission factors shown in Tables A.1. and A.2. as well as reported data on fuel consumption, sulfur content, and boiler firing configuration. Controlled emissions are then determined when pollution control equipment is present. Although information on control equipment was not collected in 2006, updates for new installations during this period were made based on EPA data. Beginning in 2007, these data were collected on the Forms EIA-860 and EIA-923. For SO₂, the reported efficiency of the plant's FGD units is used to convert uncontrolled to controlled emission estimates. For NO_x, the reduction percentages shown in Table A.4. are applied to the uncontrolled estimates.
- For plants and prime movers not reported on the historical Form EIA-767 survey or Forms EIA-860 and EIA-923, uncontrolled emissions are estimated using the Table A.1. and Table A.2. emission factors and the following data and assumptions:
 - Fuel consumption is taken from the Form EIA-923 and predecessors.
 - The sulfur content of the fuel is estimated from fuel receipts for the plant reported on the Form EIA-923. When plant-specific sulfur content data are unavailable, the national average sulfur content for the fuel, computed from the Form EIA-923 is applied to the plant.
 - As noted earlier, the emission factor for plants with boilers depends in part on the type of combustion system, including whether a boiler is wet-bottom or dry-bottom, and the boiler firing configuration. However, this boiler information is unavailable for steam electric plants that did not report on the historical Forms EIA-767 or EIA-860. For these cases, the plant is assumed to have a dry-bottom, non-cyclone boiler using a firing method that falls into the "All Other" category shown on Table A.1.⁸
For the plants that did not report on the historical Form EIA-767 or EIA-860, pollution control equipment data are unavailable and the uncontrolled estimates are not reduced.
- If actual emissions of SO₂ or NO_x are reported in the EPA's CEMS data, the EIA estimates are replaced with the CEMS values, using the EIA estimates to allocate the CEMS plant-level data by fuel. If CEMS data are unavailable, the EIA estimates are used as the final values.

Conversion Factors for Propane, Petroleum Coke, and Synthesis Gases.

The quantity conversion for petroleum coke is 5 barrels (of 42 U.S. gallons each) per short ton (2,000 pounds), propane is 1.53 thousand cubic feet per barrel, coal-derived synthesis gas is 98.06 thousand cubic feet per ton, and petroleum coke-derived synthesis gas is 107.31 thousand cubic feet per ton.

Relative Standard Error

The relative standard error (RSE) statistic, usually given as a percent, describes the magnitude of sampling error that might reasonably be incurred. The RSE is the square root of the estimated variance, divided by the variable of interest. The variable of interest may be the ratio of two variables, or a single variable.

The sampling error may be less than the non-sampling error. In fact, large RSE estimates found in preliminary work with these data have often indicated non-sampling errors, which were then identified and corrected. Non-sampling errors may be attributed to many sources, including response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding data obtained, and other errors of collection, response, or coverage. These non-sampling errors also occur in complete censuses.

Using the Central Limit Theorem, which applies to sums and means such as are applicable here, there is approximately a 68 percent chance that the true total or mean is within one RSE of the estimated total. Note that reported RSEs are always estimates, themselves, and are usually, as here, reported as percents. As an example, suppose that a net generation from coal value is estimated to be 1,507 total million kilowatthours with an estimated RSE of 4.9 percent. This means that, ignoring any non-sampling error, there is approximately a 68 percent chance that the true million kilowatthour value is within approximately 4.9 percent of 1,507 million kilowatthours (that is, between 1,433 and 1,581 million kilowatthours). Also under the Central Limit Theorem, there is approximately a 95 percent chance that the true mean or total is within 2 RSEs of the estimated mean or total.

Note that there are times when a model may not apply, such as in the case of a substantial reclassification of sales, when the relationship between the variable of interest and the regressor data does not hold. In such a case, the new information represents only itself, and such numbers are added to model results when estimating totals. Further, there are times when sample data may be known to be in error, or are not reported. Such cases are treated as if they were never part of the model-based sample, and values are imputed.

Business Classification

Nonutility power producers consist of entities that own or operate electric generating units but are not subject to direct economic regulation of rates, such as by state utility commissions. Nonutility power producers do not have a designated franchised service area. In addition to entities whose primary business is the production and sale of electric power, entities with other primary business classifications can and do sell electric power. These can consist of, for example, manufacturing facilities and paper mills.

The EIA, in the Electric Power Annual and other data products, classifies nonutility power producers into the following categories:

- **Electric Utility (Sector 1):** All regulated plants with a primary purpose of selling electricity in the public markets (NAICS = 22).
- **Independent Power Producers (Sector 2):** All non-regulated plants with a primary purpose of electric power generation and a primary purpose of selling electricity in the public markets (NAICS = 22) with no ability to cogenerate heat and power.
- **Electric Power, Combined Heat and Power (Sector 3):** All non-regulated plants with a primary purpose of electric power generation and a primary purpose of selling electricity in the public markets (NAICS = 22) with the ability to cogenerate heat and power.
- **Commercial, Non-Combined Heat and Power (Sector 4):** All plants with a commercial primary purpose with no ability to cogenerate heat and power.

- **Commercial, Combined Heat and Power (Sector 5):** All plants with a commercial primary purpose with the ability to cogenerate heat and power.
- **Industrial, Non-Combined Heat and Power (Sector 6):** All plants with an industrial primary purpose with no ability to cogenerate heat and power.
- **Industrial, Combined Heat and Power (Sector 7):** All plants with an industrial primary purpose with the ability to cogenerate heat and power.

The following is a list of the North American Industry Classification System (NAICS) classifications used by EIA.

| | |
|--------|---|
| | Agriculture, Forestry, Fishing and Hunting |
| 111 | Crop Production |
| 112 | Animal Production |
| 113 | Forestry and Logging |
| 114 | Fishing, Hunting and Trapping |
| 115 | Support Activities for Agriculture and Forestry |
| | Mining, Quarrying, and Oil and Gas Extraction |
| 211 | Oil and Gas Extraction |
| 2121 | Coal Mining |
| 2122 | Metal Ore Mining |
| 2123 | Nonmetallic Mineral Mining and Quarrying |
| | Utilities |
| 22 | Electric Power Generation, Transmission and Distribution (other than 2212, 2213, 22131, 22132 or 22133) |
| 2212 | Natural Gas Distribution |
| 22131 | Water Supply and Irrigation Systems |
| 22132 | Sewage Treatment Facilities |
| 22133 | Steam and Air-Conditioning Supply |
| | Manufacturing |
| 311 | Food Manufacturing |
| 312 | Beverage and Tobacco Product Manufacturing |
| 313 | Textile Mills (Fiber, Yarn, Thread, Fabric, and Textiles) |
| 314 | Textile Product Mills |
| 315 | Apparel Manufacturing |
| 316 | Leather and Allied Product Manufacturing |
| 321 | Wood Product Manufacturing |
| 322 | Paper Manufacturing (other than 322122 or 32213) |
| 322122 | Newsprint Mills |
| 32213 | Paperboard Mills |
| 323 | Printing and Related Support Activities |
| 324 | Petroleum and Coal Products Manufacturing (other than 32411) |
| 32411 | Petroleum Refineries |
| 325 | Chemical Manufacturing (other than 32511, 32512, 325193, 325188, 3252 325211, 3253 or 325311) |
| 32511 | Petrochemical Manufacturing |
| 32512 | Industrial Gas Manufacturing |
| 325193 | Ethyl Alcohol Manufacturing (including Ethanol) |
| 325188 | Industrial Inorganic Chemicals |
| 3252 | Resin, Synthetic Rubber, and Artificial Synthetic Fibers and Filaments Manufacturing (other than |

325211)

325211 Plastics Material and Resin Manufacturing

3253 Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing (other than 325311)

325311 Nitrogenous Fertilizer Manufacturing

326 Plastics and Rubber Products Manufacturing

327 Nonmetallic Mineral Product Manufacturing (other than 32731)

32731 Cement Manufacturing

331 Primary Metal Manufacturing (other than 331111 or 331312)

331111 Iron and Steel Mills

331312 Primary Aluminum Production

332 Fabricated Metal Product Manufacturing

333 Machinery Manufacturing

334 Computer and Electronic Product Manufacturing

335 Electrical Equipment, Appliance, and Component Manufacturing

336 Transportation Equipment Manufacturing

337 Furniture and Related Product Manufacturing

339 Miscellaneous Manufacturing

421 **Wholesale Trade**

441 **Retail Trade**

Transportation and Warehousing

481 Air Transportation

482 Rail Transportation

483 Water Transportation

484 Truck Transportation

485 Transit and Ground Passenger Transportation

486 Pipeline Transportation

487 Scenic and Sightseeing Transportation

488 Support Activities for Transportation (other than 4881, 4882, 4883 or 4884)

4881 Support Activities for Air Transportation (including Airports)

4882 Support Activities for Rail Transportation (including Rail Stations)

4883 Support Activities for Water Transportation (including Marinas)

4884 Support Activities for Road Transportation

491 Postal Service

492 Couriers and Messengers

493 Warehousing and Storage

Information

511 Publishing Industries (except Internet)

512 Motion Picture and Sound Recording Industries

515 Broadcasting (except Internet)

517 Telecommunications

518 Data Processing, Hosting, and Related Services

519 Other Information Services

521 **Finance and Insurance**

53 **Real Estate and Rental and Leasing (including Convention Centers and Office Buildings)**

541 **Professional, Scientific, and Technical Services**

55 **Management of Companies and Enterprises**

| | |
|--------|---|
| | Administrative and Support and Waste Management and Remediation Services |
| 561 | Administrative and Support Services |
| 562 | Waste Management and Remediation Services (other than 562212 or 562213) |
| 562212 | Solid Waste Landfill |
| 562213 | Solid Waste Combustors and Incinerators |
| 611 | Educational Services |
| | Health Care and Social Assistance |
| 621 | Ambulatory Health Care Services |
| 622 | Hospitals |
| 623 | Nursing and Residential Care Facilities |
| 624 | Social Assistance |
| | Arts, Entertainment, and Recreation |
| 711 | Performing Arts, Spectator Sports, and Related Industries |
| 712 | Museums, Historical Sites, and Similar Institutions |
| 713 | Amusement, Gambling, and Recreation Industries |
| | Accommodation and Food Services |
| 721 | Accommodation |
| 722 | Food Services and Drinking Places |
| | Other Services (except Public Administration) |
| 811 | Repair and Maintenance |
| 812 | Personal and Laundry Services |
| 813 | Religious, Grantmaking, Civic, Professional, and Similar Organizations |
| 814 | Private Households |
| | Public Administration (other than 921, 922, 92214 or 928) |
| 92 | Executive, Legislative, and Other General Government Services |
| 921 | Executive, Legislative, and Other General Government Services |
| 922 | Justice, Public Order and Safety Activities (other than 92214) |
| 92214 | Correctional Facilities |
| 928 | National Security and International Affairs (including Military Bases) |

¹ The basic technique employed is described in the paper "Model-Based Sampling and Inference," on the EIA website. Additional references can be found on the InterStat website (<http://interstat.statjournals.net/>). See the following sources: Knaub, J.R., Jr. (1999a), "Using Prediction-Oriented Software for Survey Estimation," InterStat, August 1999, <http://interstat.statjournals.net/>; Knaub, J.R. Jr. (1999b), "Model-Based Sampling, Inference and Imputation," EIA web site: <http://www.eia.gov/cneaf/electricity/forms/eiawebme.pdf>; Knaub, J.R., Jr. (2005), "Classical Ratio Estimator," InterStat, October 2005, <http://interstat.statjournals.net/>; Knaub, J.R., Jr. (2007a), "Cutoff Sampling and Inference," InterStat, April 2007, <http://interstat.statjournals.net/>; Knaub, J.R., Jr. (2008), "Cutoff Sampling." Definition in Encyclopedia of Survey Research Methods, Editor: Paul J. Lavrakas, Sage, to appear; Knaub, J.R., Jr. (2000), "Using Prediction-Oriented Software for Survey Estimation - Part II: Ratios of Totals," InterStat, June 2000, <http://interstat.statjournals.net/>; Knaub, J.R., Jr. (2001), "Using Prediction-Oriented Software for Survey Estimation - Part III: Full-Scale Study of Variance and Bias," InterStat, June 2001, <http://interstat.statjournals.net/>.

² Due to the restructuring of the electric power industry, many plants which had historically submitted this information for utility plants on the FERC Form 423 (see subsequent section) were being transferred to the nonutility sector. As a result, a large percentage of fossil fuel receipts were no longer being reported. The Form EIA-423 was implemented to fill this void and to capture the data associated with existing nonregulated power producers. Its design closely follows that of the FERC Form 423.

³ The basic technique employed is described in the paper “Model-Based Sampling and Inference,” on the EIA website. Additional references can be found on the InterStat website (<http://interstat.statjournals.net/>). See the following sources: Knaub, J.R., Jr. (1999a), “Using Prediction-Oriented Software for Survey Estimation,” InterStat, August 1999, <http://interstat.statjournals.net/>; Knaub, J.R. Jr. (1999b), “Model-Based Sampling, Inference and Imputation,” EIA web site: <http://www.eia.gov/cneaf/electricity/forms/eiawebme.pdf>; Knaub, J.R., Jr. (2005), “Classical Ratio Estimator,” InterStat, October 2005, <http://interstat.statjournals.net/>; Knaub, J.R., Jr. (2007a), “Cutoff Sampling and Inference,” InterStat, April 2007, <http://interstat.statjournals.net/>; Knaub, J.R., Jr. (2008), “Cutoff Sampling.” Definition in Encyclopedia of Survey Research Methods, Editor: Paul J. Lavrakas, Sage, to appear; Knaub, J.R., Jr. (2000), “Using Prediction-Oriented Software for Survey Estimation - Part II: Ratios of Totals,” InterStat, June 2000, <http://interstat.statjournals.net/>; Knaub, J.R., Jr. (2001), “Using Prediction-Oriented Software for Survey Estimation - Part III: Full-Scale Study of Variance and Bias,” InterStat, June 2001, <http://interstat.statjournals.net/>.

⁴ See the following sources: Bahillo, A. et al. Journal of Energy Resources Technology, “NO_x and N₂O Emissions During Fluidized Bed Combustion of Leather Wastes.” Volume 128, Issue 2, June 2006. pp. 99-103; U.S. Energy Information Administration. *Renewable Energy Annual 2004*. “Average Heat Content of Selected Biomass Fuels.” Washington, DC, 2005; Penn State Agricultural College Agricultural and Biological Engineering and Council for Solid Waste Solutions. Garth, J. and Kowal, P. Resource Recovery, Turning Waste into Energy, University Park, PA, 1993; Utah State University Recycling Center Frequently Asked Questions

⁵ Biogenic components include newsprint, paper, containers and packaging, leather, textiles, yard trimmings, food wastes, and wood. Non-biogenic components include plastics, rubber and other miscellaneous non-biogenic waste.

⁶ A boiler’s firing configuration relates to the arrangement of the fuel burners in the boiler, and whether the boiler is of conventional or cyclone design. Wet- and dry-bottom boilers use different methods to collect a portion of the ash that results from burning coal. For information on wet- and dry-bottom boilers, see the EIA Glossary at <http://www.eia.gov/glossary/index.html>. Additional information on wet- and dry-bottom boilers and on other aspects of boiler design and operation, including the differences between conventional and cyclone designs, can be found in Babcock and Wilcox, *Steam: Its Generation and Use*, 41st Edition, 2005.

⁷ Boilers that rely entirely on waste heat to create steam, including the heat recovery portion of most combined cycle plants, did not report on the historical Form EIA-767 or EIA-923.

⁸ The “All Other” firing configuration category includes, for example, arch firing and concentric firing. For a full list of firing method options for reporting on the historical Form EIA-767, see the form instructions, page xi, at http://www.eia.gov/survey/form/eia_767/instructions_form.pdf.

Table A.1. Sulfur Dioxide Uncontrolled Emission Factors

| Fuel, Code, Source and Emission Units | | | | Combustion System Type / Firing Configuration | | | | | | |
|---------------------------------------|---------------|--|---|---|-----------------------------|---------------|--------------------------|------------------------|--------------------|----------------------------|
| Fuel | EIA Fuel Code | Source and Tables (As Appropriate) | Emissions Units Lbs = Pounds MMCF = Million Cubic Feet MG = Thousand Gallons | Cyclone Firing Boiler | Fluidized Bed Firing Boiler | Stoker Boiler | Tangential Firing Boiler | All Other Boiler Types | Combustion Turbine | Internal Combustion Engine |
| Distillate Fuel Oil* | DFO | Source: 2, Table 3.1-2a, 3.4-1 & 1.3-1 | Lbs per MG | 142.00 | 14.20 | 142.00 | 142.00 | 142.00 | 140.00 | 140.00 |
| Jet Fuel* | JF | Assumed to have emissions similar to DFO. | Lbs per MG | 142.00 | 14.20 | 142.00 | 142.00 | 142.00 | 140.00 | 140.00 |
| Kerosene* | KER | Assumed to have emissions similar to DFO. | Lbs per MG | 142.00 | 14.20 | 142.00 | 142.00 | 142.00 | 140.00 | 140.00 |
| Other Biomass Liquids* | OBL | Source: 1 (including footnotes 3 and 16 within source) | Lbs per MG | 142.00 | 14.20 | 142.00 | 142.00 | 142.00 | 140.00 | 140.00 |
| Residual Fuel Oil* | RFO | Source: 2, Table 1.3-1; Combustion turbines and internal combustion engines assumed to have emissions similar to DFO. | Lbs per MG | 157.00 | 15.70 | 157.00 | 157.00 | 157.00 | 140.00 | 140.00 |
| Wood Waste Liquids* | WDL | Source: 1 (including footnotes 3 and 16 within source) | Lbs per MG | 142.00 | 14.20 | 142.00 | 142.00 | 142.00 | 140.00 | 140.00 |
| Waste Oil* | WO | Source: 2, Table 1.11-2; Combustion turbines and internal combustion engines assumed to have emissions similar to DFO. | Lbs per MG | 147.00 | 14.70 | 147.00 | 147.00 | 147.00 | 140.00 | 140.00 |
| Blast Furnace Gas | BFG | Sources: 1 (including footnote 7 within source); 2, Table 1.4-2 (including footnote d within source) | Lbs per MMCF | 0.60 | 0.06 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Landfill Gas | LFG | Sources: 1 (including footnote 7 within source); 2, Table 1.4-2 (including footnote d within source) | Lbs per MMCF | 0.60 | 0.06 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Natural Gas | NG | Sources: 1 (including footnote 7 within source); 2, Table 1.4-2 (including footnote d within source) | Lbs per MMCF | 0.60 | 0.06 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Other Biomass Gas | OBG | Sources: 1 (including footnote 7 within source); 2, Table 1.4-2 (including footnote d within source) | Lbs per MMCF | 0.60 | 0.06 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Other Gases | OG | Source: 1 (including footnote 7 within source) | Lbs per MMCF | 0.60 | 0.06 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Other | OTH | Assumed to have emissions similar to Natural Gas. | Lbs per MMCF | 0.60 | 0.06 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Propane Gas | PG | Sources: 1 (including footnote 7 within source); 2, Table 1.4-2 (including footnote d within source) | Lbs per MMCF | 0.60 | 0.06 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Coal-Derived Synthesis Gas | SGC | Assumed to have emissions similar to Natural Gas | Lbs per MMCF | 0.60 | 0.06 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Synthesis Gas from Petroleum Coke | SGP | Assumed to have emissions similar to Natural Gas | Lbs per MMCF | 0.60 | 0.06 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Agricultural Byproducts | AB | Source: 1 | Lbs per ton | 0.08 | 0.01 | 0.08 | 0.08 | 0.08 | N/A | N/A |
| Bituminous Coal* | BIT | Source: 2, Table 1.1-3 | Lbs per ton | 38.00 | 3.80 | 38.00 | 38.00 | 38.00 | N/A | N/A |
| Lignite Coal* | LIG | Source: 2, Table 1.7-1 | Lbs per ton | 30.00 | 3.00 | 30.00 | 30.00 | 30.00 | N/A | N/A |
| Municipal Solid Waste | MSW | Source: 1 | Lbs per ton | 1.70 | 0.17 | 1.70 | 1.70 | 1.70 | N/A | N/A |
| Other Biomass Solids | OBS | Source: 1 (including footnote 11 within source) | Lbs per ton | 0.23 | 0.02 | 0.23 | 0.23 | 0.23 | N/A | N/A |
| Petroleum Coke* | PC | Source: 1 | Lbs per ton | 39.00 | 3.90 | 39.00 | 39.00 | 39.00 | N/A | N/A |
| Subbituminous Coal* | SUB | Source: 2, Table 1.1-3 | Lbs per ton | 35.00 | 3.50 | 35.00 | 35.00 | 35.00 | N/A | N/A |
| Tire-Derived Fuel* | TDF | Source: 1 (including footnote 13 within source) | Lbs per ton | 38.00 | 3.80 | 38.00 | 38.00 | 38.00 | N/A | N/A |
| Waste Coal* | WC | Source: 1 (including footnote 20 within source) | Lbs per ton | 30.00 | 3.00 | 30.00 | 30.00 | 30.00 | N/A | N/A |
| Wood Waste Solids | WDS | Source: 1 | Lbs per ton | 0.29 | 0.08 | 0.08 | 0.29 | 0.29 | N/A | N/A |
| Black Liquor | BLQ | Source: 1 | Lbs per ton ** | 7.00 | 0.70 | 7.00 | 7.00 | 7.00 | N/A | N/A |
| Sludge Waste | SLW | Source: 1 (including footnote 11 within source) | Lbs per ton ** | 2.80 | 0.28 | 2.80 | 2.80 | 2.80 | N/A | N/A |

Notes:

* For these fuels, emissions are estimated by multiplying the emissions factor by the physical volume of fuel and the sulfur percentage of the fuel (other fuels do not require the sulfur percentage in the calculation). Note that EIA data do not provide the sulfur content of TDF. The value used (1.56 percent) is from U.S. EPA, Control of Mercury Emissions from Coal-Fired Electric Utility Boilers, April 2002, EPA-600/R-01-109, Table A-11 (available at: <http://www.epa.gov/appcdwww/aptb/EPA-600-R-01-109A.pdf>).

** Although Sludge Waste and Black Liquor consist substantially of liquids, these fuels are measured and reported to EIA in tons.

Sources:

- Eastern Research Group, Inc. and E.H. Pechan & Associates, Inc., Documentation for the 2002 Electric Generating Unit National Emissions Inventory, Table 6, September 2004. Prepared for the U.S. Environmental Protection Agency, Emission Factor and Inventory Group (D205-01), Emissions, Monitoring and Analysis Division, Research Triangle Park
- U.S. Environmental Protection Agency, AP 42, Fifth Edition (Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources); available at: <http://www.epa.gov/ttn/chief/ap42/>

Table A.2. Nitrogen Oxides Uncontrolled Emission Factors

| Fuel, Code, Source and Emission Units | | | | Combustion System Type / Firing Configuration | | | | | | | | | |
|---------------------------------------|---------------|--|---|---|-----------------------------|---------------|--------------------|--------------------|------------------------|--------------------|--------------------|----------------------------|----------|
| Fuel | EIA Fuel Code | Source and Tables (As Appropriate) | Emissions Units Lbs = Pounds MMCF = Million Cubic Feet MG = Thousand Gallons | | | | Tangential Boiler | | All Other Boiler Types | | Combustion Turbine | Internal Combustion Engine | |
| | | | | Cyclone Firing Boiler | Fluidized Bed Firing Boiler | Stoker Boiler | Dry-Bottom Boilers | Wet-Bottom Boilers | Dry-Bottom Boilers | Wet-Bottom Boilers | | | |
| Distillate Fuel Oil | DFO | Source: 2, Tables 1.3-1, 3.1-1, & 3.4-1 | Lbs per MG | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 122.00 | 443.80 |
| Jet Fuel | JF | Source: 2, Tables 1.3-1, 3.1-1, & 3.4-1 | Lbs per MG | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 118.80 | 432.00 |
| Kerosene | KER | Source: 2, Tables 1.3-1, 3.1-1, & 3.4-1 | Lbs per MG | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 118.80 | 432.00 |
| Other Biomass Liquids | OBL | Source: 1 (including footnote 3 within source); EIA estimates | Lbs per MG | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 112.30 | 408.30 |
| Residual Fuel Oil | RFO | Source: 2, Table 1.3-1; EIA estimates | Lbs per MG | 47.00 | 47.00 | 47.00 | 32.00 | 32.00 | 47.00 | 47.00 | 47.00 | 131.70 | 479.00 |
| Wood Waste Liquids | WDL | Source: 1 (including footnote 16 within source); EIA estimates | Lbs per MG | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 230.50 | 838.10 |
| Waste Oil | WO | Source: 2, Table 1.11-2; EIA estimates | Lbs per MG | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 92.20 | 335.20 |
| Blast Furnace Gas | BFG | Sources: 1 (including footnote 7 within source); EIA estimates | Lbs per MMCF | 15.40 | 15.40 | 15.40 | 15.40 | 15.40 | 15.40 | 15.40 | 15.40 | 30.40 | 256.55 |
| Landfill Gas | LFG | Sources: 1 (including footnote 7 within source); EIA estimates | Lbs per MMCF | 72.44 | 72.44 | 72.44 | 72.44 | 72.44 | 72.44 | 72.44 | 72.44 | 144.00 | 1,215.22 |
| Natural Gas | NG | Source: 2, Tables 1.4-1, 3.1-1, and 3.4-1 | Lbs per MMCF | 280.00 | 280.00 | 280.00 | 170.00 | 170.00 | 280.00 | 280.00 | 280.00 | 328.00 | 2,768.00 |
| Other Biomass Gas | OBG | Sources: 1 (including footnote 7 within source); EIA estimates | Lbs per MMCF | 112.83 | 112.83 | 112.83 | 112.83 | 112.83 | 112.83 | 112.83 | 112.83 | 313.60 | 2,646.48 |
| Other Gases | OG | Sources: 1 (including footnote 7 within source); EIA estimates | Lbs per MMCF | 152.82 | 152.82 | 152.82 | 152.82 | 152.82 | 152.82 | 152.82 | 152.82 | 263.82 | 2,226.41 |
| Other | OTH | Assumed to have emissions similar to Natural Gas. | Lbs per MMCF | 280.00 | 280.00 | 280.00 | 170.00 | 170.00 | 280.00 | 280.00 | 280.00 | 328.00 | 2,768.00 |
| Propane Gas | PG | Sources: 3; EIA estimates | Lbs per MMCF | 522.26 | 522.26 | 522.26 | 522.26 | 522.26 | 522.26 | 522.26 | 522.26 | 803.36 | 6,779.57 |
| Synthesis Gas from Petroleum Coke | SGC | Assumed to have emissions similar to Natural Gas | Lbs per MMCF | 280.00 | 280.00 | 280.00 | 170.00 | 170.00 | 280.00 | 280.00 | 280.00 | 328.00 | 2,768.00 |
| Coal-Derived Synthesis Gas | SGP | Assumed to have emissions similar to Natural Gas | Lbs per MMCF | 280.00 | 280.00 | 280.00 | 170.00 | 170.00 | 280.00 | 280.00 | 280.00 | 328.00 | 2,768.00 |
| Agricultural Byproducts | AB | Source: 1 | Lbs per ton | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | N/A | N/A |
| Bituminous Coal | BIT | Source: 2, Table 1.1-3 | Lbs per ton | 33.00 | 5.00 | 11.00 | 10.00 | 14.00 | 12.00 | 31.00 | 31.00 | N/A | N/A |
| Lignite Coal | LIG | Source: 2, Table 1.7-1 | Lbs per ton | 15.00 | 3.60 | 5.80 | 7.10 | 7.10 | 6.30 | 6.30 | 6.30 | N/A | N/A |
| Municipal Solid Waste | MSW | Source: 1 | Lbs per ton | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | N/A | N/A |
| Other Biomass Solids | OBS | Source: 1 (including footnote 11 within source) | Lbs per ton | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | N/A | N/A |
| Petroleum Coke | PC | Source: 1 (including footnote 8 within source) | Lbs per ton | 21.00 | 5.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | N/A | N/A |
| Subbituminous Coal | SUB | Source: 2, Table 1.1-3 | Lbs per ton | 17.00 | 5.00 | 8.80 | 7.20 | 7.20 | 7.40 | 24.00 | 24.00 | N/A | N/A |
| Tire-Derived Fuel | TDF | Source: 1 (including footnote 13 within source) | Lbs per ton | 33.00 | 5.00 | 11.00 | 10.00 | 14.00 | 12.00 | 31.00 | 31.00 | N/A | N/A |
| Waste Coal | WC | Source: 1 (including footnote 20 within source) | Lbs per ton | 15.00 | 3.60 | 5.80 | 7.10 | 7.10 | 6.30 | 6.30 | 6.30 | N/A | N/A |
| Wood Waste Solids | WDS | Source: 1 | Lbs per ton | 2.51 | 2.00 | 1.50 | 2.51 | 2.51 | 2.51 | 2.51 | 2.51 | N/A | N/A |
| Black Liquor | BLQ | Source: 1 | Lbs per ton ** | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | N/A | N/A |
| Sludge Waste | SLW | Source: 1 (including footnote 11 within source) | Lbs per ton ** | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | N/A | N/A |

Notes:

** Although Sludge Waste and Black Liquor consist substantially of liquids, these fuels are measured and reported to EIA in tons.

Sources:

1. Eastern Research Group, Inc. and E.H. Pechan & Associates, Inc., Documentation for the 2002 Electric Generating Unit National Emissions Inventory, Table 6, September 2004. Prepared for the U.S. Environmental Protection Agency, Emission Factor and Inventory Group (D205-01), Emissions, Monitoring and Analysis Division, Research Triangle Park
2. U.S. Environmental Protection Agency, AP 42, Fifth Edition (Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources); available at: <http://www.epa.gov/ttn/chief/ap42/>
3. U.S. Environmental Protection Agency, Factor Information Retrieval (FIRE) Database, Version 6.25; available at: <http://www.epa.gov/ttn/chief/software/fire/index.html>

Table A.3. Carbon Dioxide Uncontrolled Emission Factors

| Fuel | EIA Fuel Code | Source and Tables (As Appropriate) | Factor (Pounds of CO2 Per Million Btu)*** |
|-----------------------------------|---------------|---|---|
| Bituminous Coal | BIT | Source: 1 | 205.60000 |
| Distillate Fuel Oil | DFO | Source: 1 | 161.30000 |
| Geothermal | GEO | Estimate from EIA, Office of Integrated Analysis and Forecasting | 16.59983 |
| Jet Fuel | JF | Source: 1 | 156.30000 |
| Kerosene | KER | Source: 1 | 159.40000 |
| Lignite Coal | LIG | Source: 1 | 215.40000 |
| Municipal Solid Waste | MSW | Source: 1 (including footnote 2 within source) | 91.90000 |
| Natural Gas | NG | Source: 1 | 117.00000 |
| Petroleum Coke | PC | Source: 1 | 225.10000 |
| Propane Gas | PG | Source: 1 | 139.00000 |
| Residual Fuel Oil | RFO | Source: 1 | 173.70000 |
| Coal-Derived Synthesis Gas | SGC | Assumed to have emissions similar to Natural Gas | 117.00000 |
| Synthesis Gas from Petroleum Coke | SGP | Assumed to have emissions similar to Natural Gas | 117.00000 |
| Subbituminous Coal | SUB | Source: 1 | 214.20000 |
| Tire-Derived Fuel | TDF | Source: 1 | 189.50000 |
| Waste Coal | WC | Assumed to have emissions similar to Bituminous Coal. | 205.60000 |
| Waste Oil | WO | Source: 2, Table 1.11-3 (assumes typical heat content of 4.4 MMBtus per barrel) | 210.00000 |

Notes:

*** CO2 factors do not vary by combustion system type or boiler firing configuration.

Sources:

1. Energy Information Administration, Office of Integrated Analysis and Forecasting, Voluntary Reporting of Greenhouse Gases Program, Table of Fuel and Energy Source: Codes and Emission Coefficients; available at: <http://www.eia.doe.gov/oiaf/1605/coefficients.html>
2. U.S. Environmental Protection Agency, AP 42, Fifth Edition (Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources); available at: <http://www.epa.gov/ttn/chief/ap42/>

Table A.4. Nitrogen Oxides Control Technology Emissions Reduction Factors

| Nitrogen Oxides Control Technology | EIA Code | Reduction Factor | | | | | | | |
|-------------------------------------|----------|------------------|---|-------------|--------|--------------|---------------|-------------|-------------|
| | | Coal | Residual Fuel Oil and Distillate Fuel Oil | Natural Gas | Wood | Other Solids | Other Liquids | Other Gases | Other Fuels |
| Burner Out of Service | BO | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% |
| Low Excess Air | LA | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% |
| Biased Firing (Alternative Burners) | BF | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% |
| Overfire Air | OV | 25.00% | 25.00% | 25.00% | 25.00% | 25.00% | 25.00% | 25.00% | 25.00% |
| Advanced Overfire Air | AA | 30.00% | 30.00% | 30.00% | 30.00% | 30.00% | 30.00% | 30.00% | 30.00% |
| Low NOx Burners | LN | 45.00% | 45.00% | 50.00% | 45.00% | 45.00% | 45.00% | 50.00% | 45.00% |
| Fuel Reburning | FU | 55.00% | 55.00% | 55.00% | 55.00% | 55.00% | 55.00% | 55.00% | 55.00% |
| Selective Noncatalytic Reduction | SN | 45.00% | 32.50% | 32.50% | 55.00% | 45.00% | 32.50% | 32.50% | 45.00% |
| Selective Catalytic Reduction | SR | 80.00% | 80.00% | 85.00% | 80.00% | 80.00% | 80.00% | 85.00% | 80.00% |
| Ammonia Injection | NH3 | 62.50% | 56.25% | 58.75% | 67.50% | 62.50% | 56.25% | 58.75% | 62.50% |
| Flue Gas Recirculation | FR | 45.00% | 45.00% | 45.00% | 45.00% | 45.00% | 45.00% | 45.00% | 45.00% |
| Water Injection | H2O | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% |
| Steam Injection | STM | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% |
| Other | OT | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% | 15.00% |

| Nitrogen Oxides Control Technology | EIA Code | Source of Selected Reduction Factor | | | | | | | |
|-------------------------------------|----------|-------------------------------------|---|-------------|------------|--------------|---------------|-------------|-------------|
| | | Coal | Residual Fuel Oil and Distillate Fuel Oil | Natural Gas | Wood | Other Solids | Other Liquids | Other Gases | Other Fuels |
| Burner Out of Service | BO | Source: 1 | Source: 2 | Source: 9 | Source: 9 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Low Excess Air | LA | Source: 1 | Source: 2 | Source: 9 | Source: 9 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Biased Firing (Alternative Burners) | BF | Source: 1 | Source: 2 | Source: 9 | Source: 9 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Overfire Air | OV | Source: 1 | Source: 9 | Source: 9 | Source: 9 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Advanced Overfire Air | AA | Source: 1 | Source: 9 | Source: 9 | Source: 9 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Low NOx Burners | LN | Source: 1 | Source: 2 | Source: 3 | Source: 9 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Fuel Reburning | FU | Source: 1 | Source: 9 | Source: 9 | Source: 9 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Selective Noncatalytic Reduction | SN | Source: 1 | Source: 2 | Source: 4 | Source: 5 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Selective Catalytic Reduction | SR | Source: 1 | Source: 2 | Source: 4 | Source: 9 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Ammonia Injection | NH3 | Source: 6 | Source: 6 | Source: 6 | Source: 6 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Flue Gas Recirculation | FR | Source: 10 | Source: 2 | Source: 10 | Source: 10 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Water Injection | H2O | Source: 8 | Source: 8 | Source: 8 | Source: 8 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Steam Injection | STM | Source: 8 | Source: 8 | Source: 8 | Source: 8 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |
| Other | OT | Source: 7 | Source: 7 | Source: 7 | Source: 7 | Source: 9 | Source: 10 | Source: 11 | Source: 9 |

Source: U.S. Environmental Protection Agency, AP 42, Fifth Edition (Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources); available at: <http://www.epa.gov/ttn/chief/ap42/>

Source 1: AP-42, Table 1.1-2

Source 2: AP-42, Section 1.3.4.3 Text

Source 3: AP-42, Table 1.4-1

Source 4: AP-42, Section 1.4.4 Text

Source 5: AP-42, Section 1.6.4 Text

Source 6: Average of Selective Catalytic Reduction and Selective Noncatalytic Reduction

Source 7: Minimum of other technologies for fuel group

Source 8: Matches Other selection

Source 9: Assumed to have reduction similar to coal

Source 10: Assumed to have reduction similar to Residual Fuel Oil and Distillate Fuel Oil

Source 11: Assumed to have reduction similar to natural gas

Notes:

Coal reduction factors are applied to Bituminous Coal, Subbituminous Coal, Lignite Coal, and Waste Coal.

Wood reduction factors are applied to Wood Waste Solids, Black Liquor, and Wood Waste Liquids.

Other Solids reduction factors are applied to Petroleum Coke, Municipal Solid Waste, Tire-Derived Fuels, Sludge Waste, Agricultural Byproducts, and Other Biomass Solids.

Other Liquids reduction factors are applied to Jet Fuel, Kerosene, Waste Oil, and Other Biomass Liquids.

Other Gases reduction factors are applied to Blast Furnace Gas, Landfill Gas, Propane Gas, Coal-Derived Synthesis Gas, Synthesis Gas from Petroleum Coke, Other Biomass Gas, and Other Gas.

Table A.5. Unit of Measure Equivalents

| Unit | Equivalent |
|------------------------|--|
| Kilowatt (kW) | 1,000 (One Thousand) Watts |
| Megawatt (MW) | 1,000,000 (One Million) Watts |
| Gigawatt (GW) | 1,000,000,000 (One Billion) Watts |
| Terawatt (TW) | 1,000,000,000,000 (One Trillion) Watts |
| | |
| Gigawatt | 1,000,000 (One Million) Kilowatts |
| Thousand Gigawatts | 1,000,000,000 (One Billion) Kilowatts |
| | |
| Kilowatthours (kWh) | 1,000 (One Thousand) Watthours |
| Megawatthours (MWh) | 1,000,000 (One Million) Watthours |
| Gigawatthours (GWh) | 1,000,000,000 (One Billion) Watthours |
| Terawatthours (TWh) | 1,000,000,000,000 (One Trillion) Watthours |
| | |
| Gigawatthours | 1,000,000 (One Million) Kilowatthours |
| Thousand Gigawatthours | 1,000,000,000(One Billion Kilowatthours |
| | |
| U.S. Dollar | 1,000 (One Thousand) Mills |
| U.S. Cent | 10 (Ten) Mills |
| | |
| Barrel of Oil | 42 Gallons |

Source: U.S. Energy Information Administration

EIA Electric Industry Data Collection

